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Architects: Morgan & Carn, A/A.R.I.B.A.

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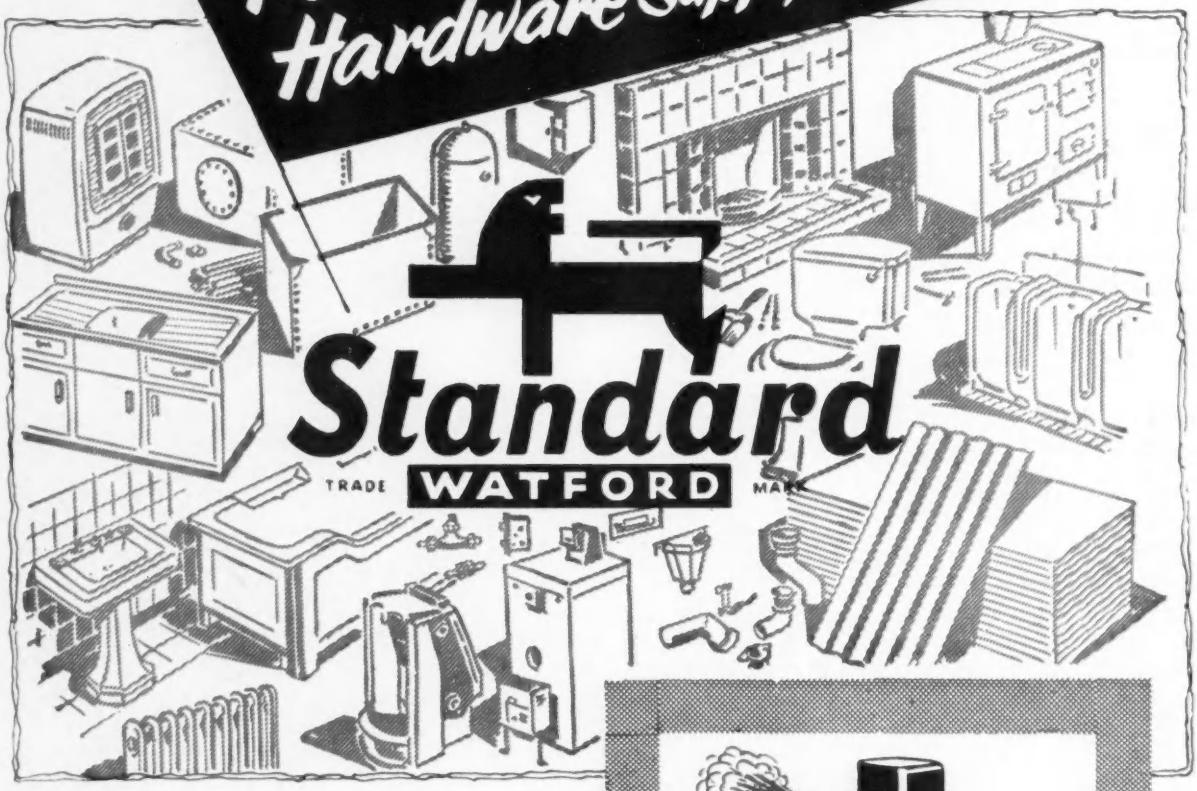

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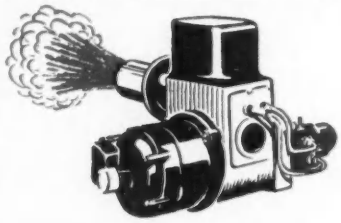

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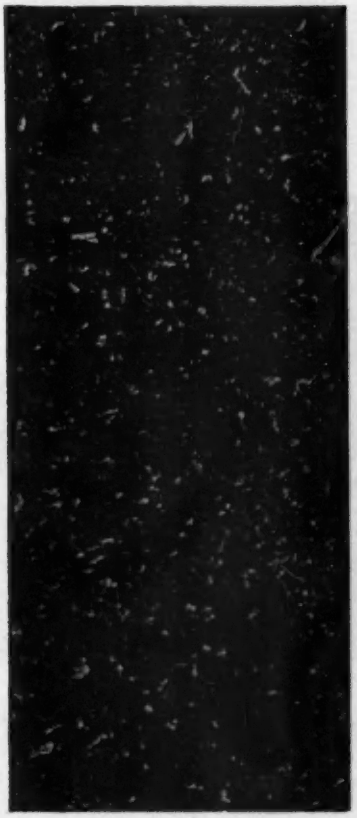

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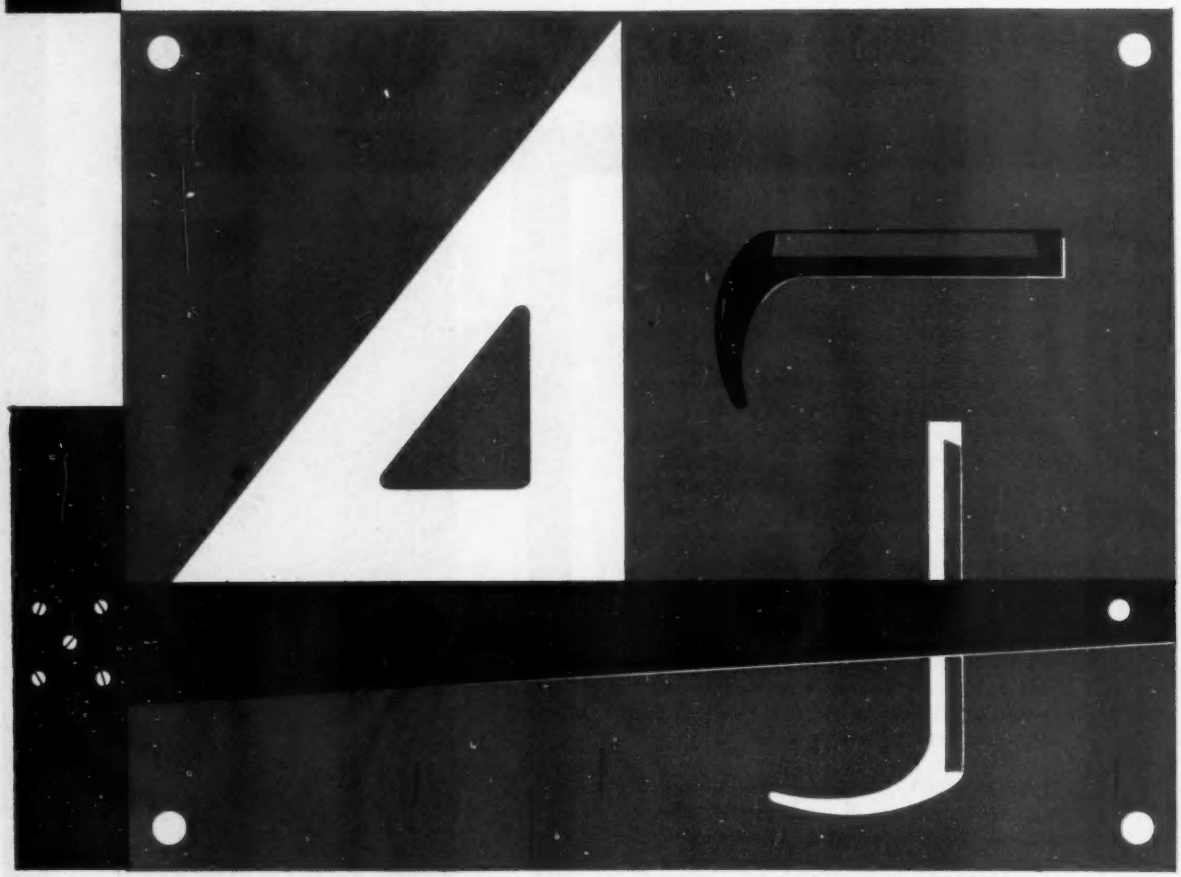

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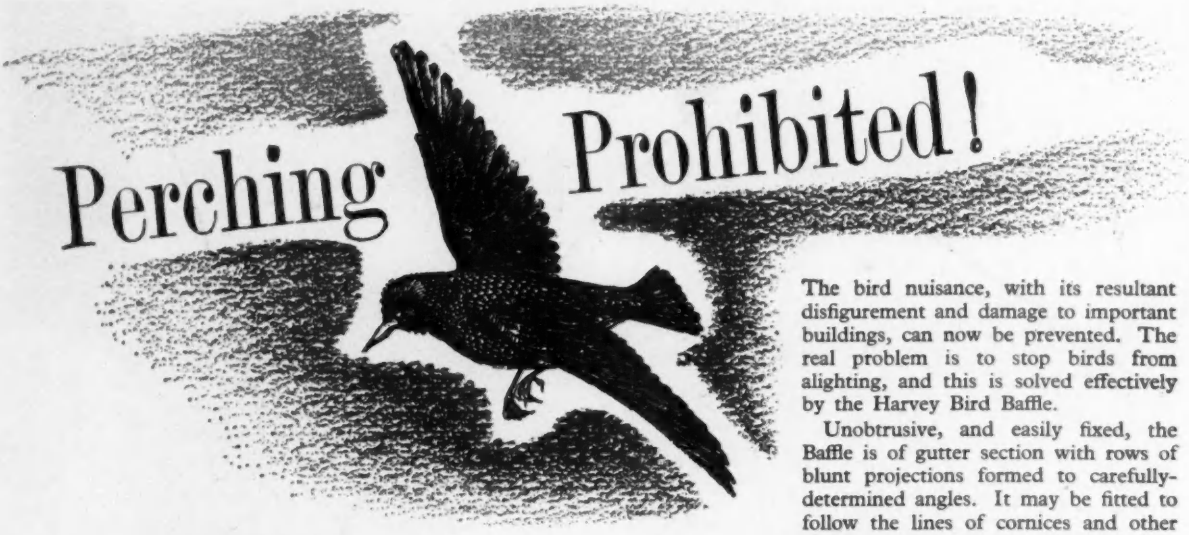

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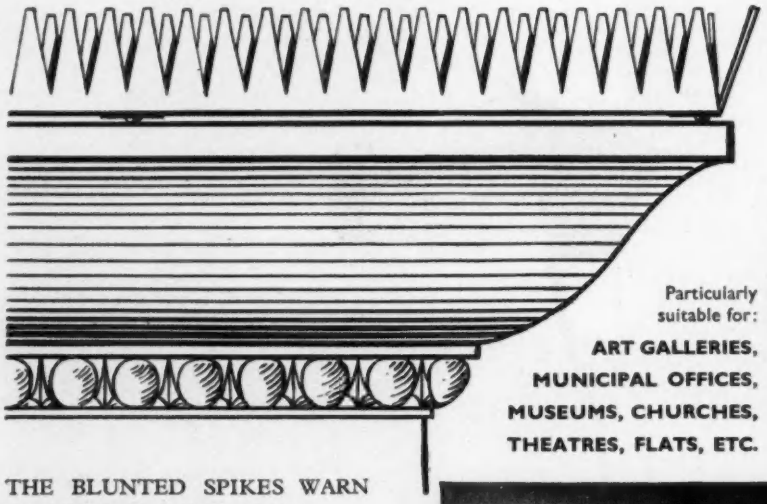

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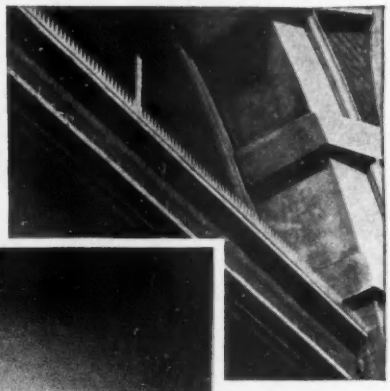

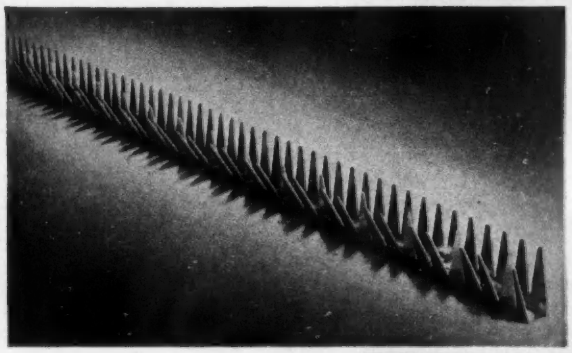

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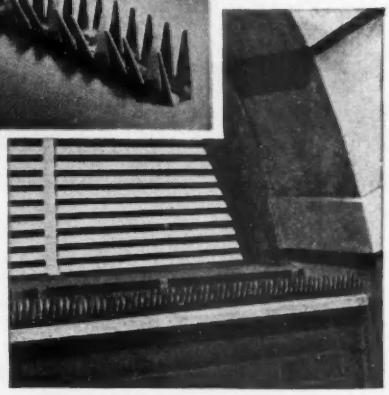

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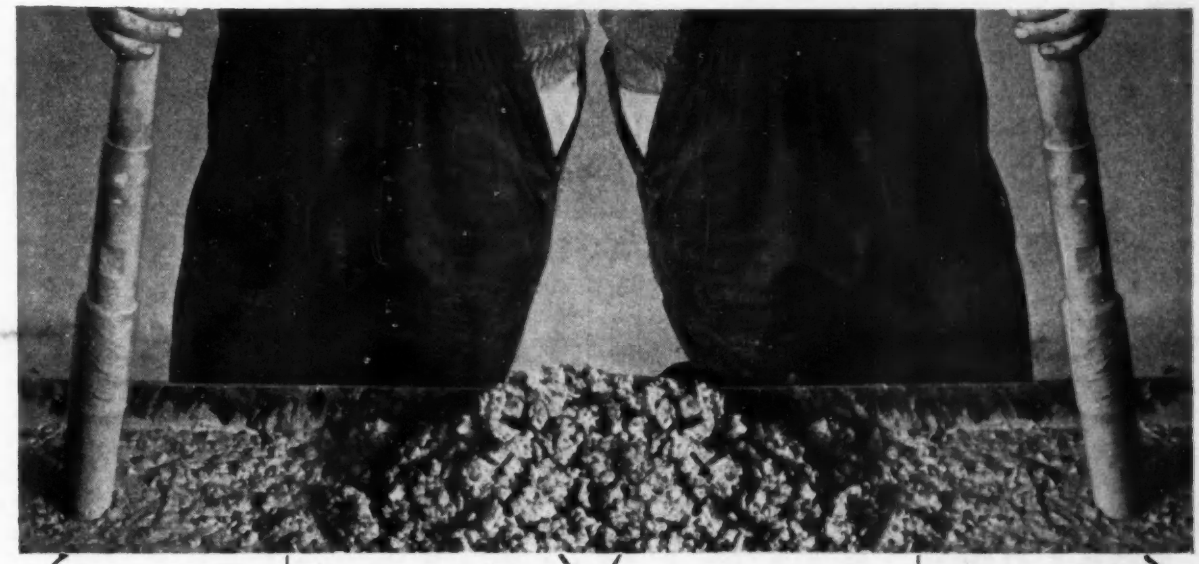

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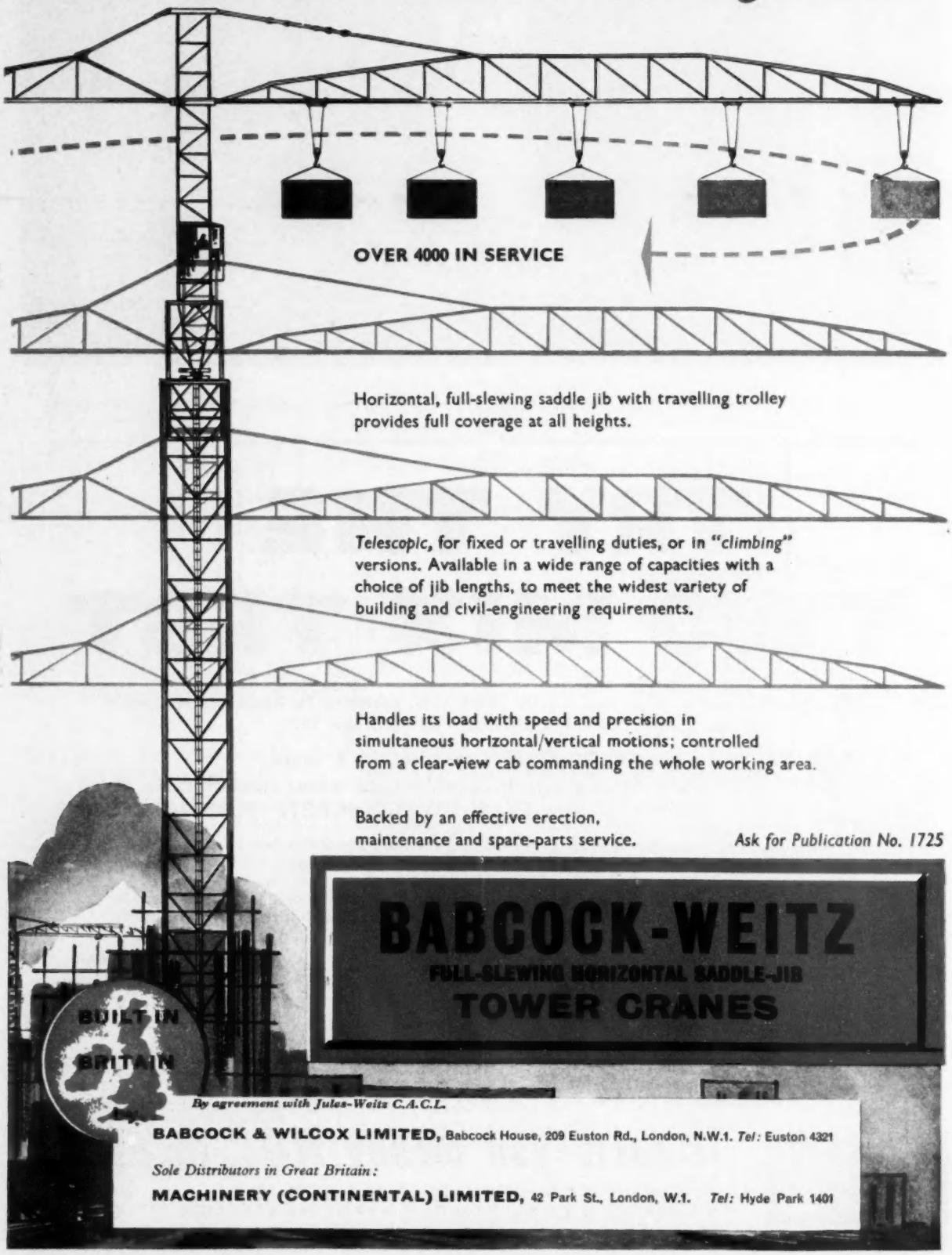

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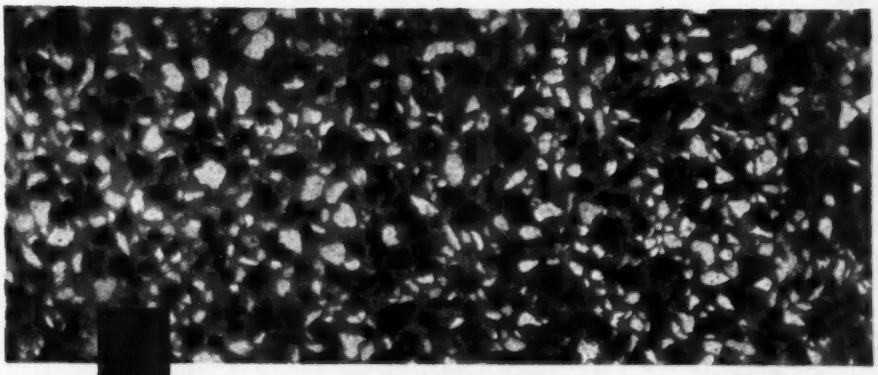

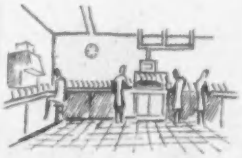

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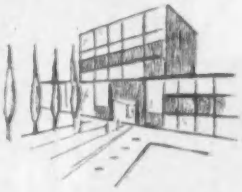

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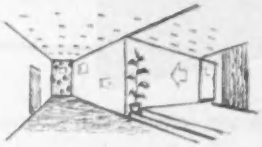

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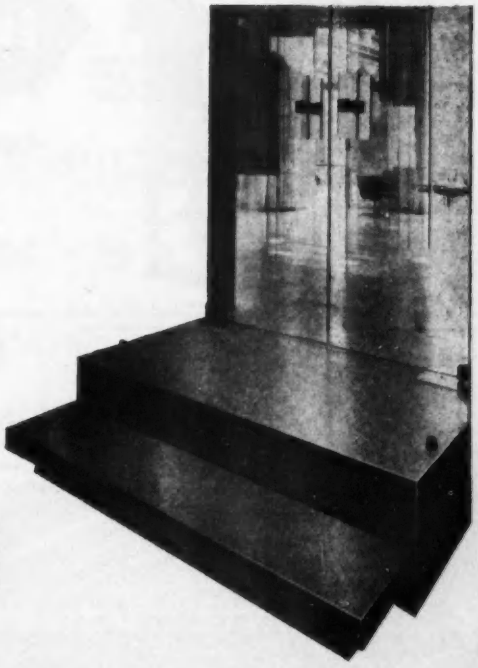

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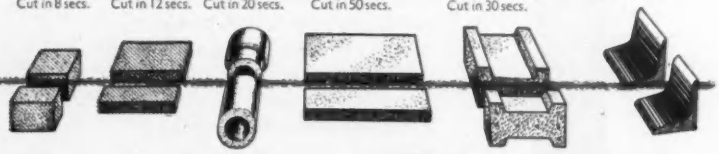

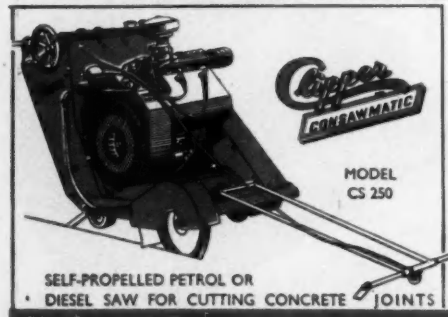

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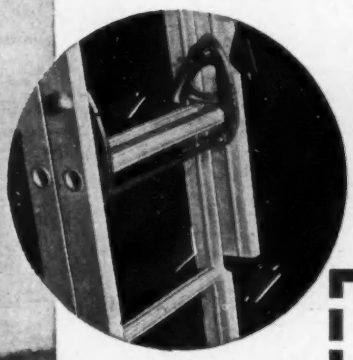

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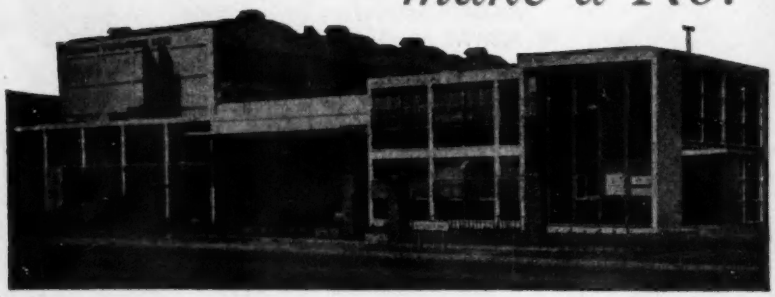

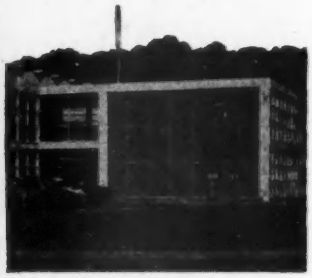

The new British Visqueen factory at Stevenage was built to produce the largest output of polythene sheeting in Europe; and it is here that the Visqueen Building sheet is also manufactured to supply an increasing number of applications for it in the building industry.

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For nearly fifty years, architects have specified Lillington's No. 1 Metallic Liquid, the scientifically prepared admixture that renders concrete completely waterproof and dustless and accelerates setting time.

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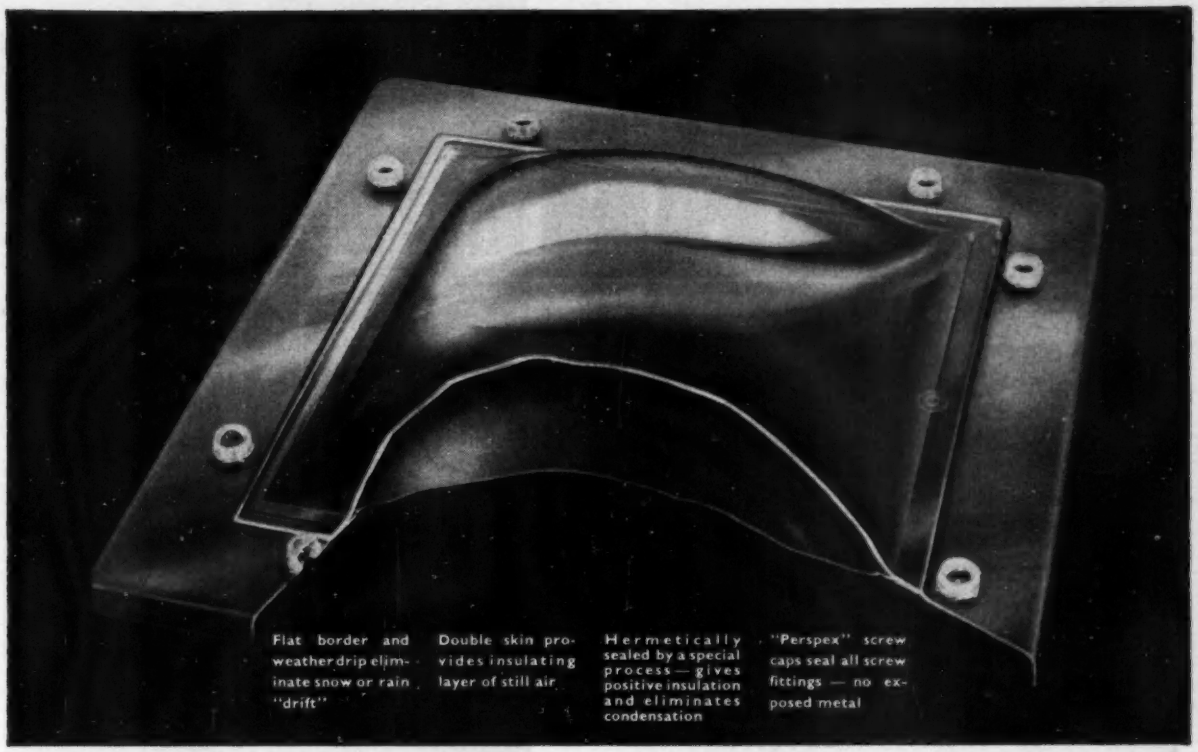

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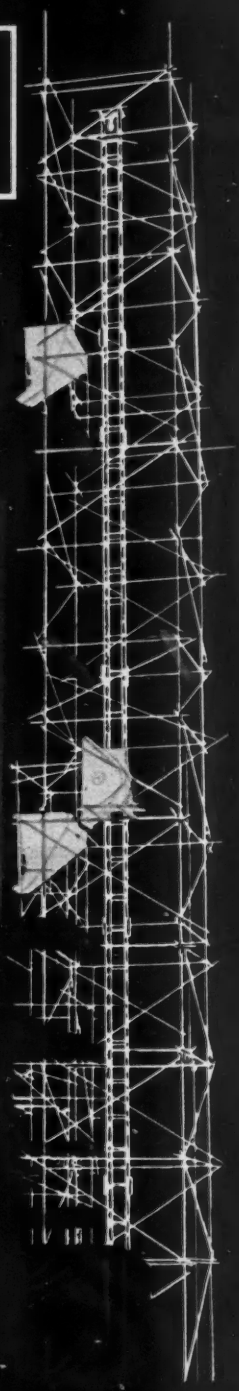

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	14 ,,	(6)	48″ × 96″	9 m/m	20 ,,	(12)	96″ × 48″
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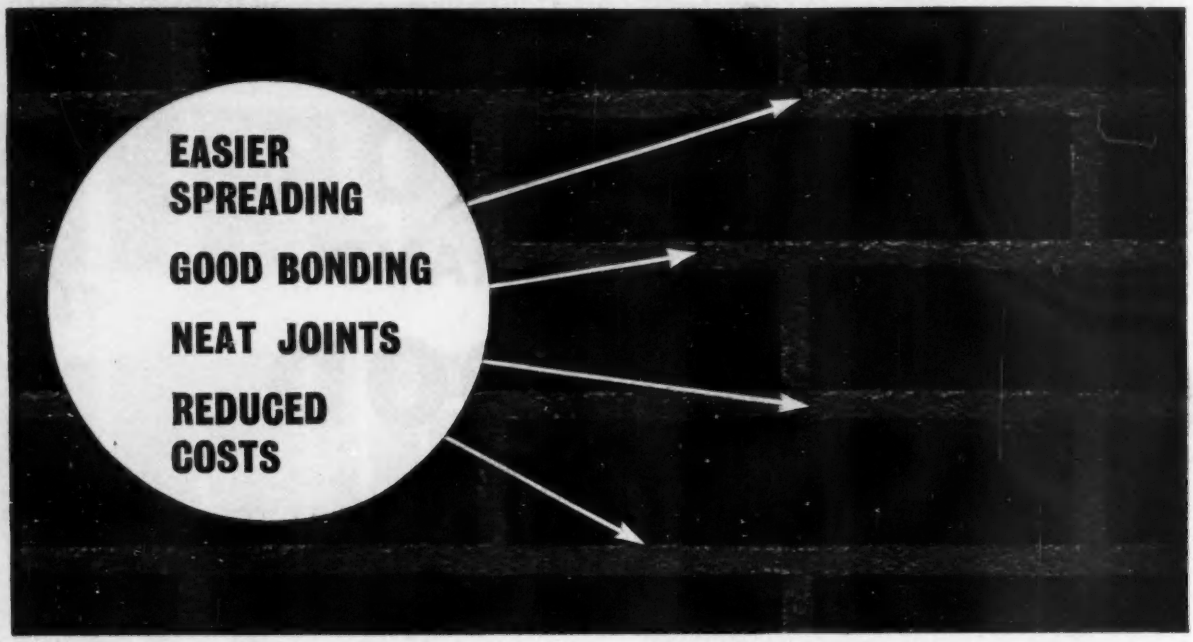

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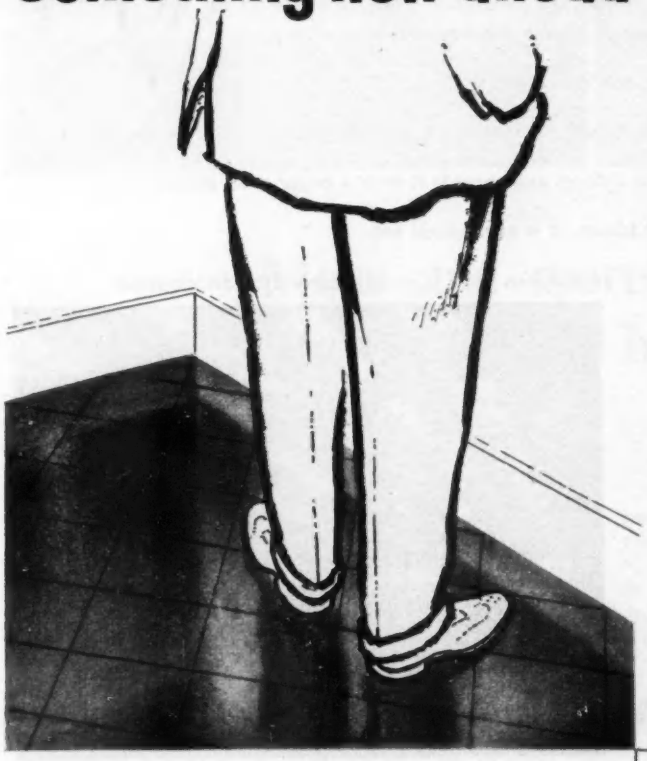

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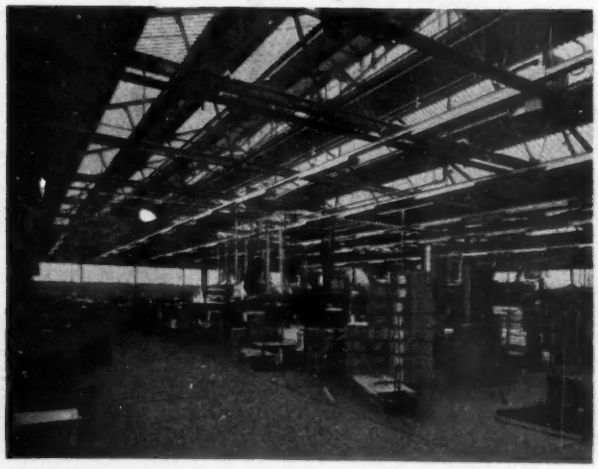

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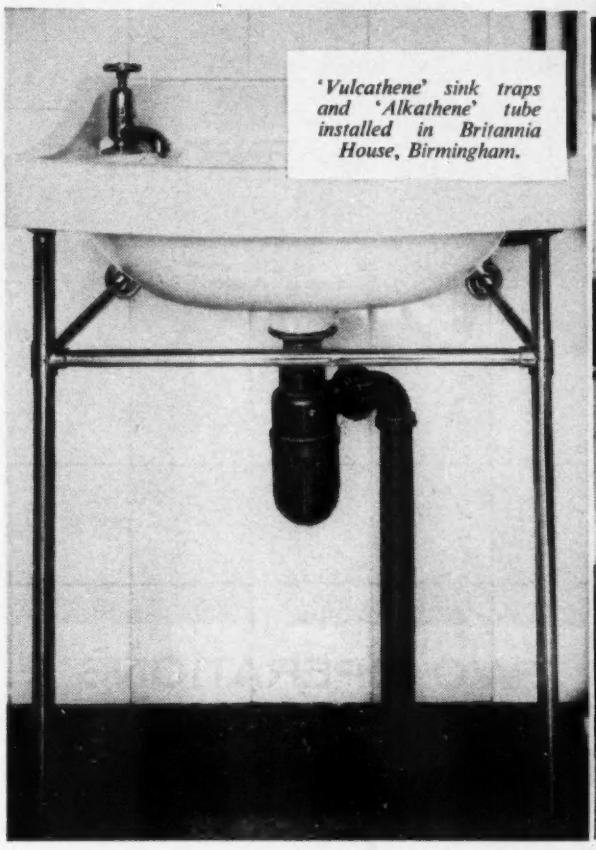
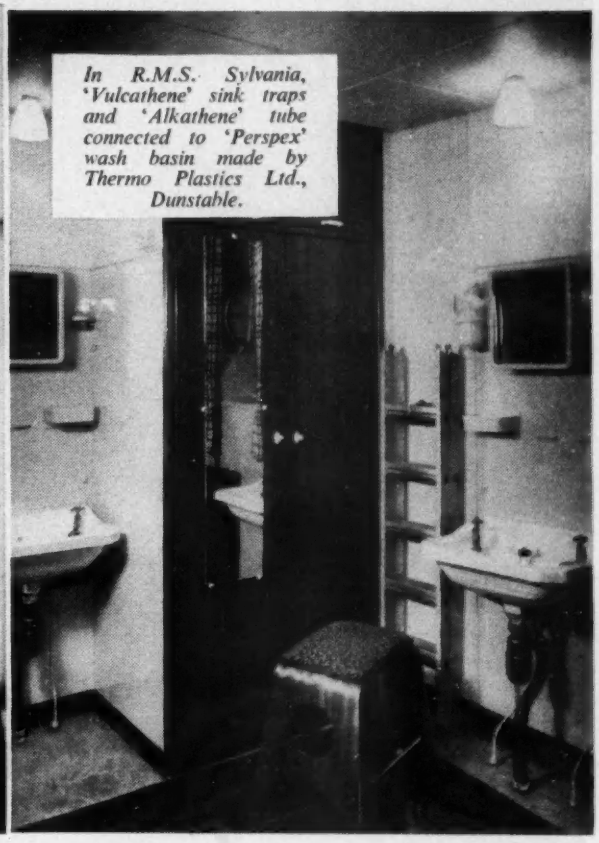


'Vulcathene' sink traps and 'Alkathene' tube installed in Britannia House, Birmingham.



In R.M.S. Sylvania, 'Vulcathene' sink traps and 'Alkathene' tube connected to 'Perspex' wash basin made by Thermo Plastics Ltd., Dunstable.

In these two photographs the 'Vulcathene' sink traps are made from 'Alkathene' H.D. by J. S. & F. Folkard Ltd., London, and are used with 'Alkathene' tube.

More and more people use 'Alkathene' tube for burst-free plumbing

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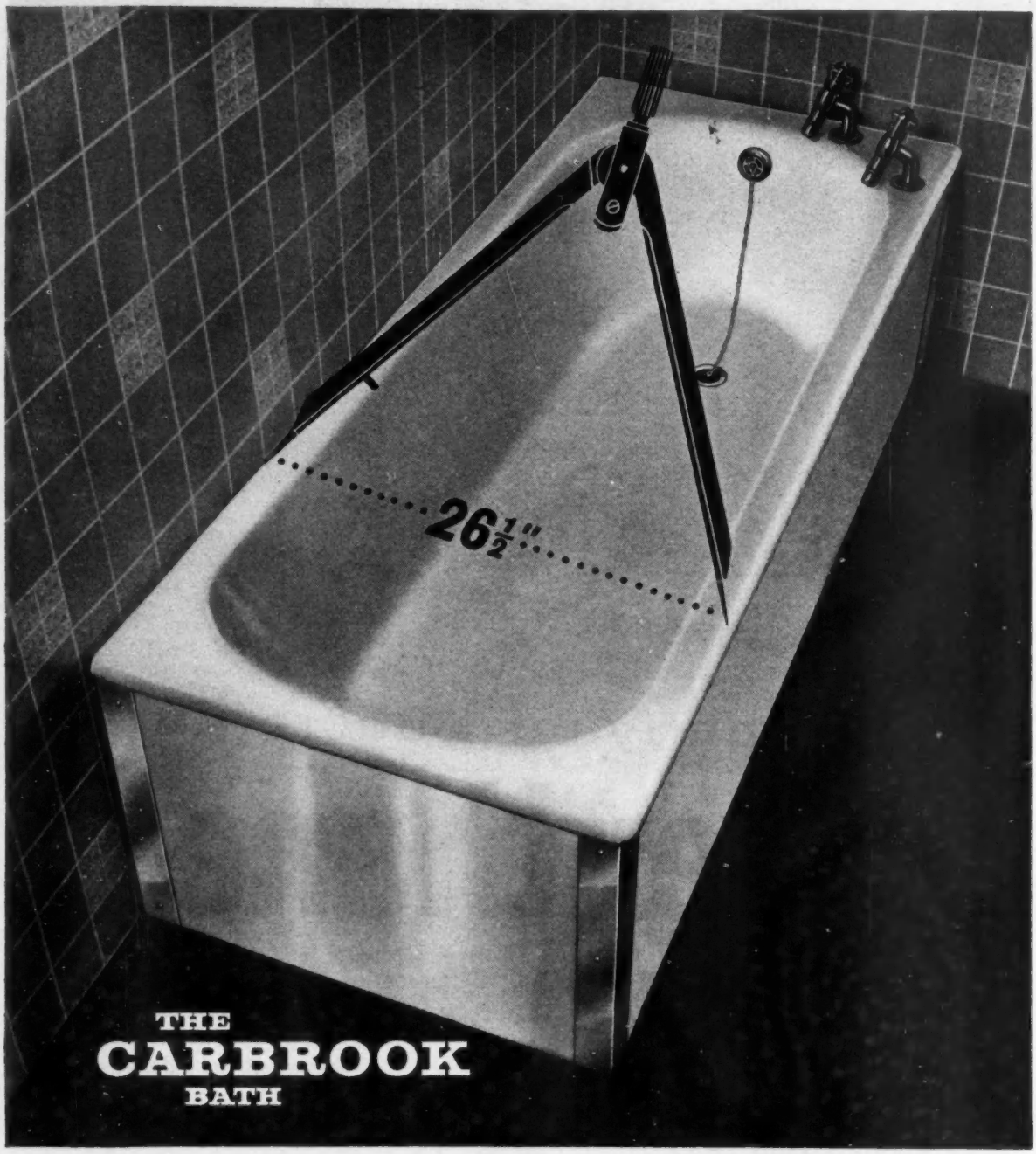

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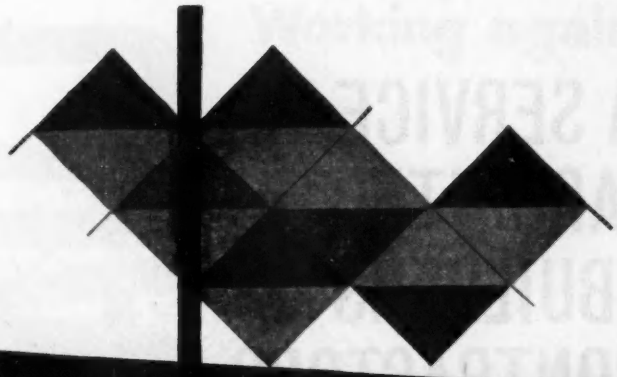

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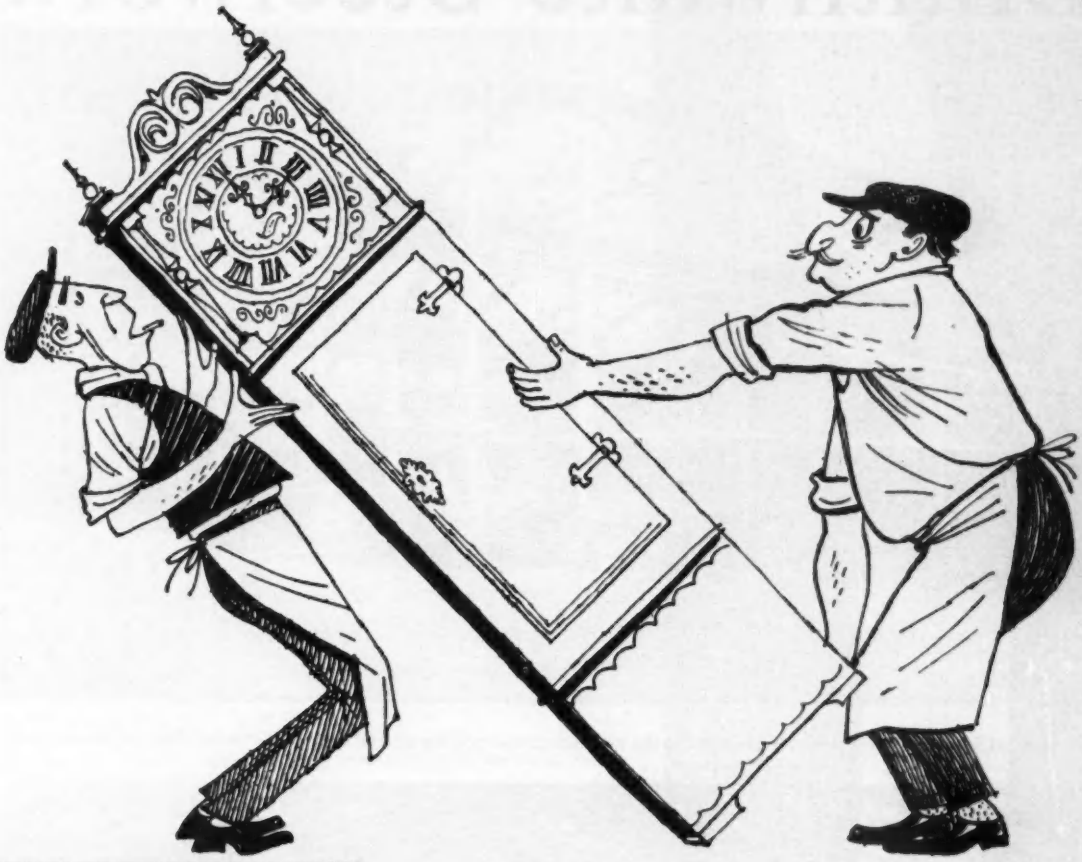

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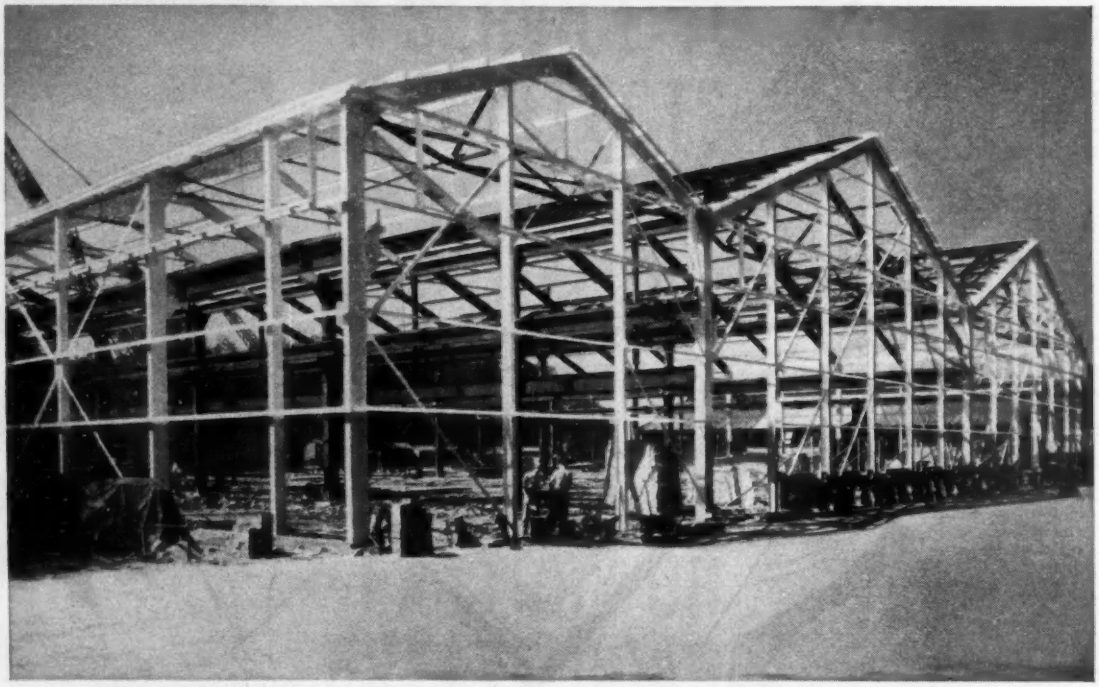

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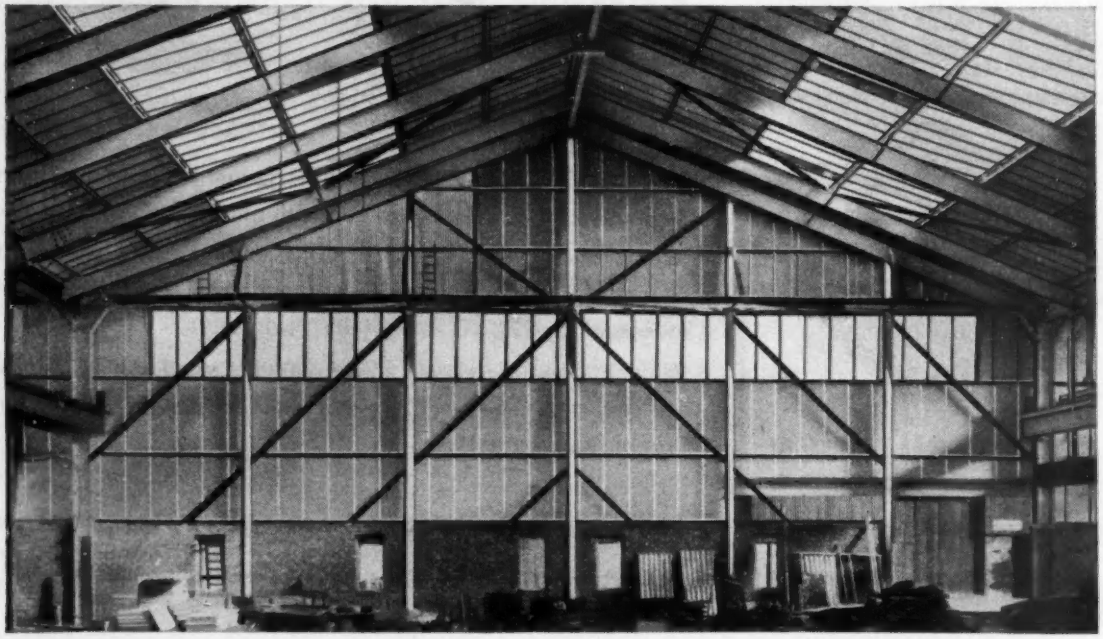

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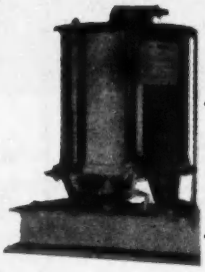

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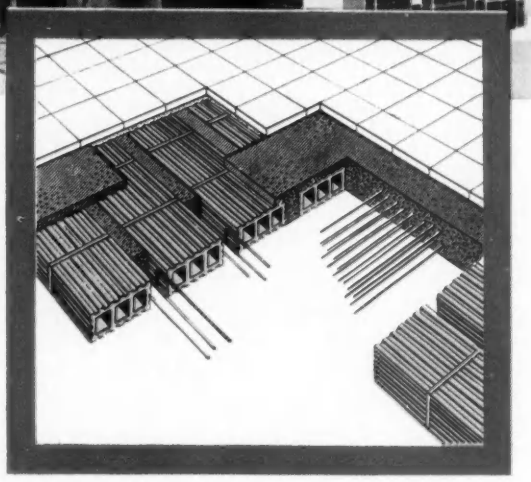

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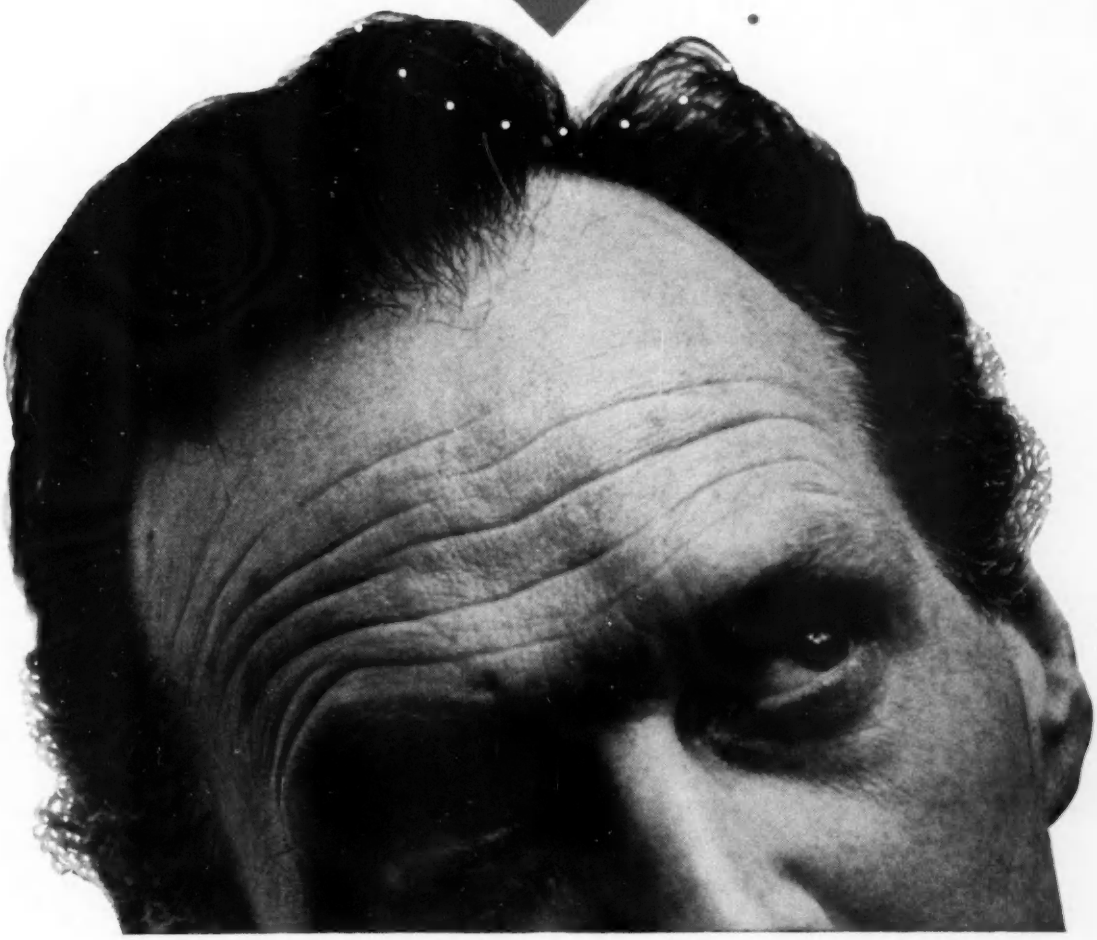

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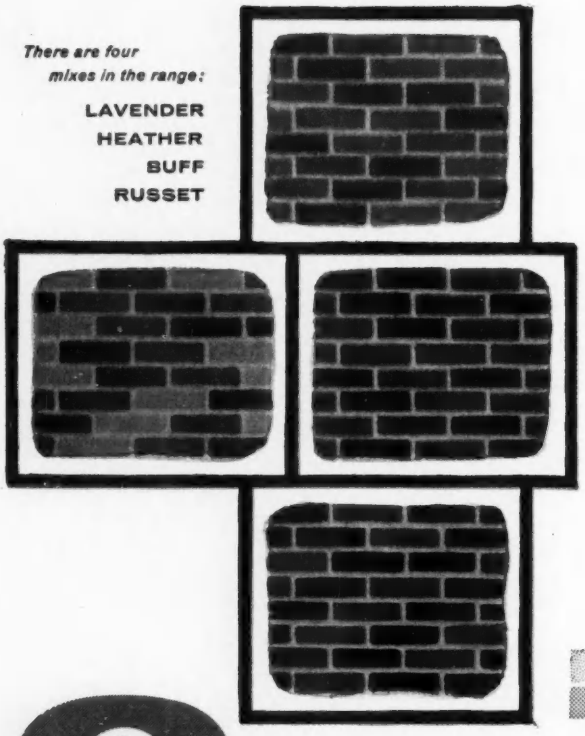

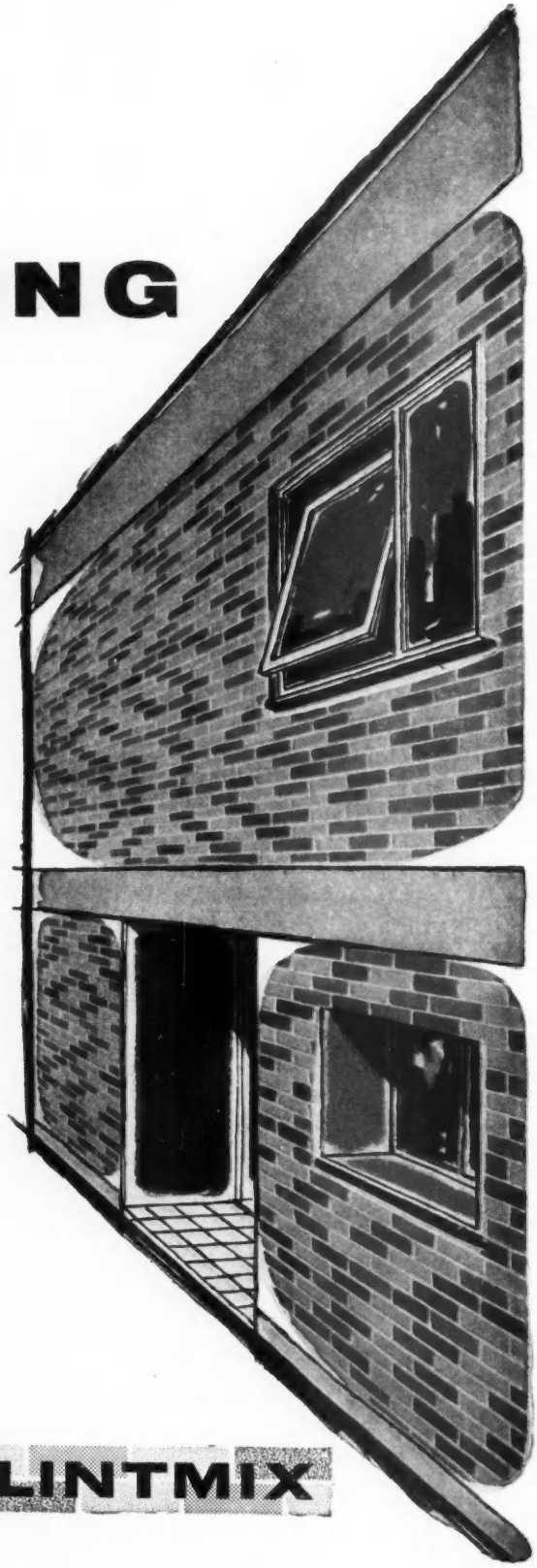

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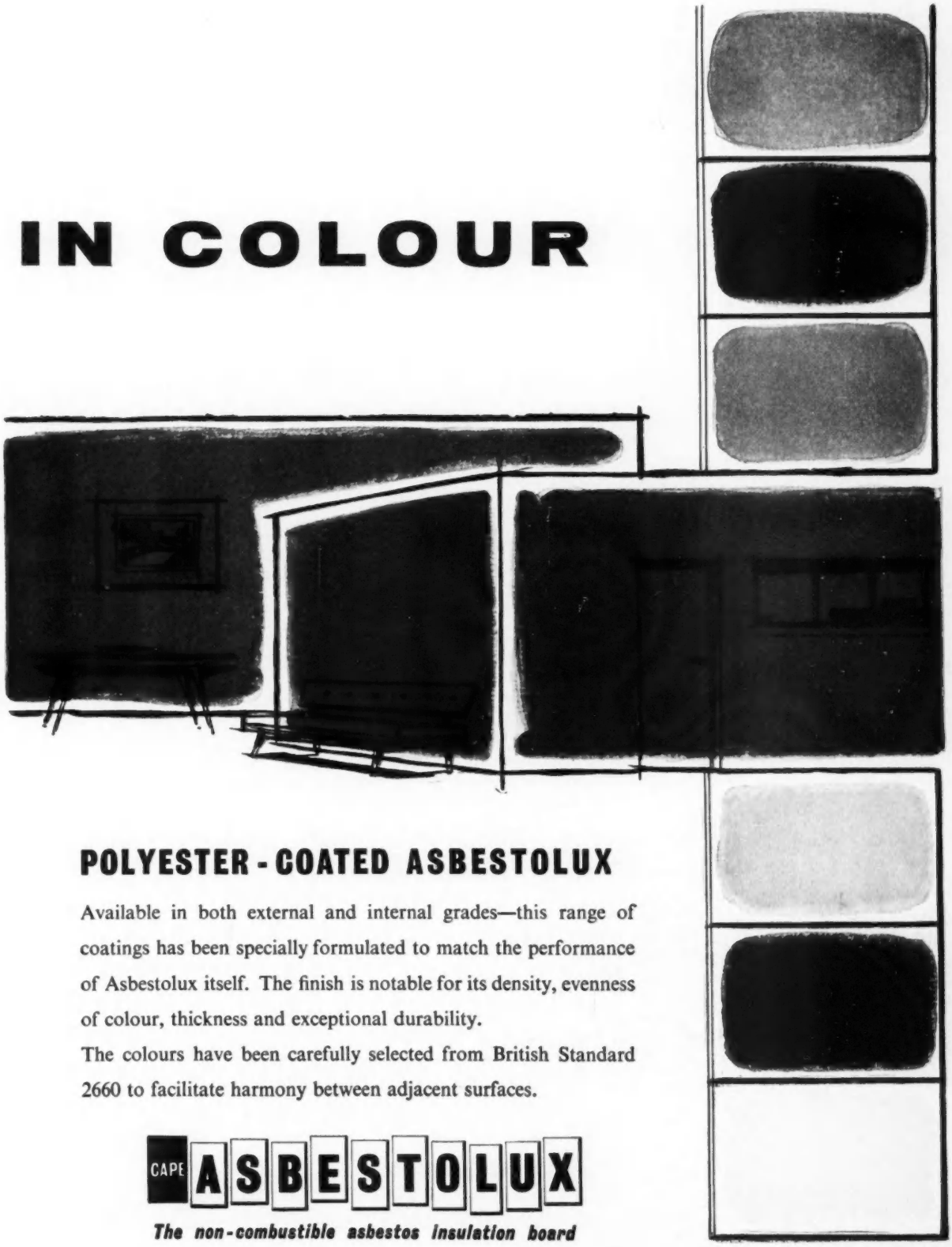

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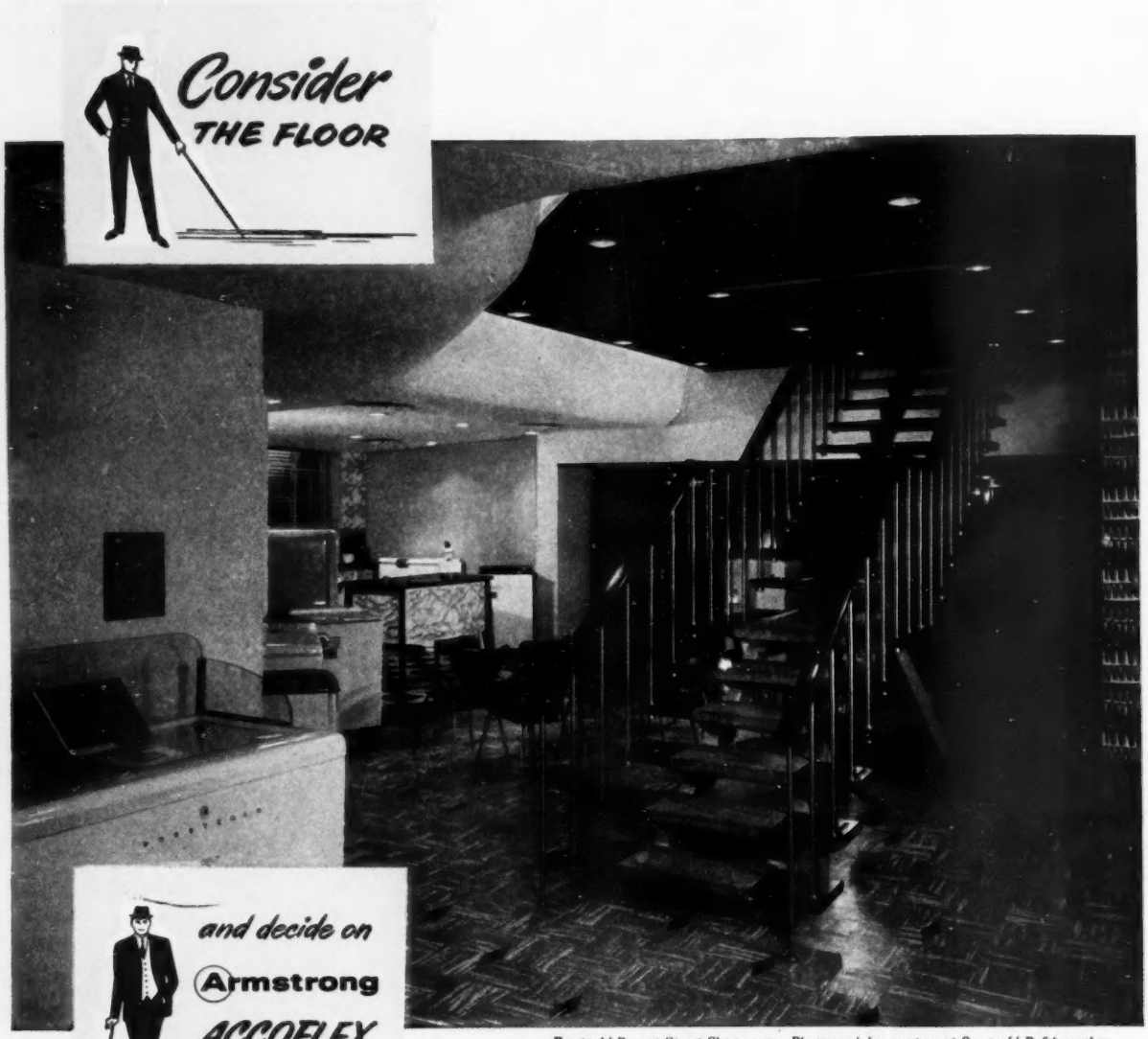

Prestcold Regent Street Showroom. Photograph by courtesy of Prestcold Refrigeration

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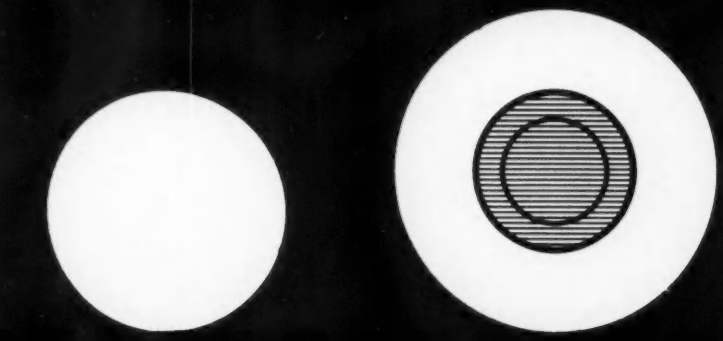

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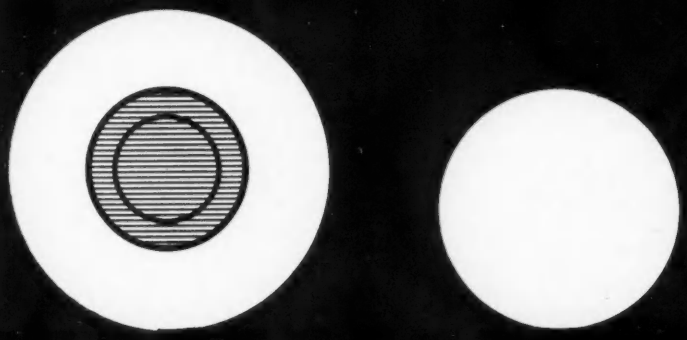

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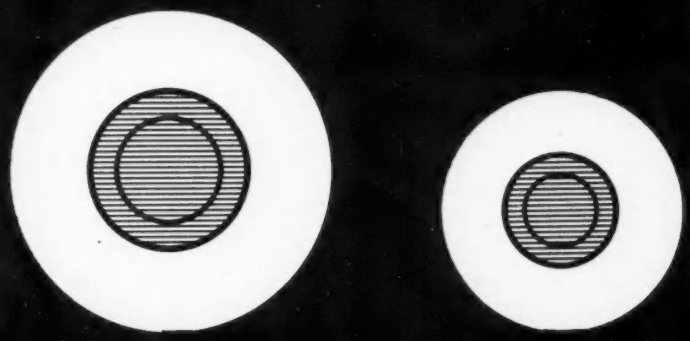

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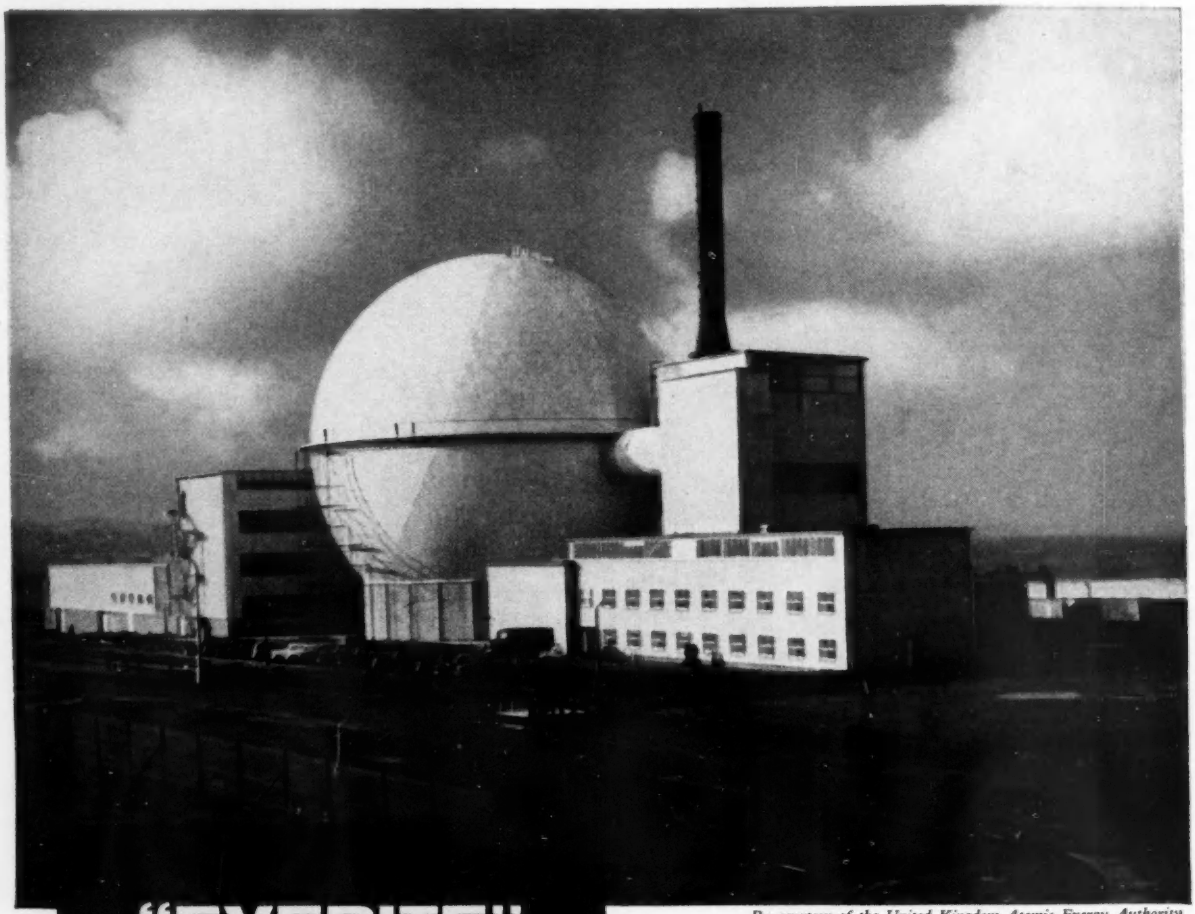

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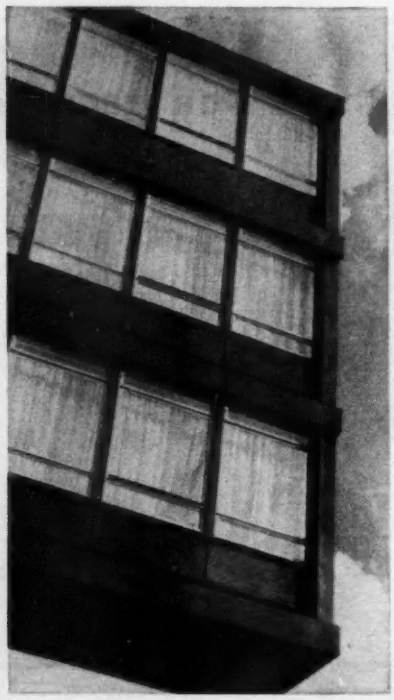
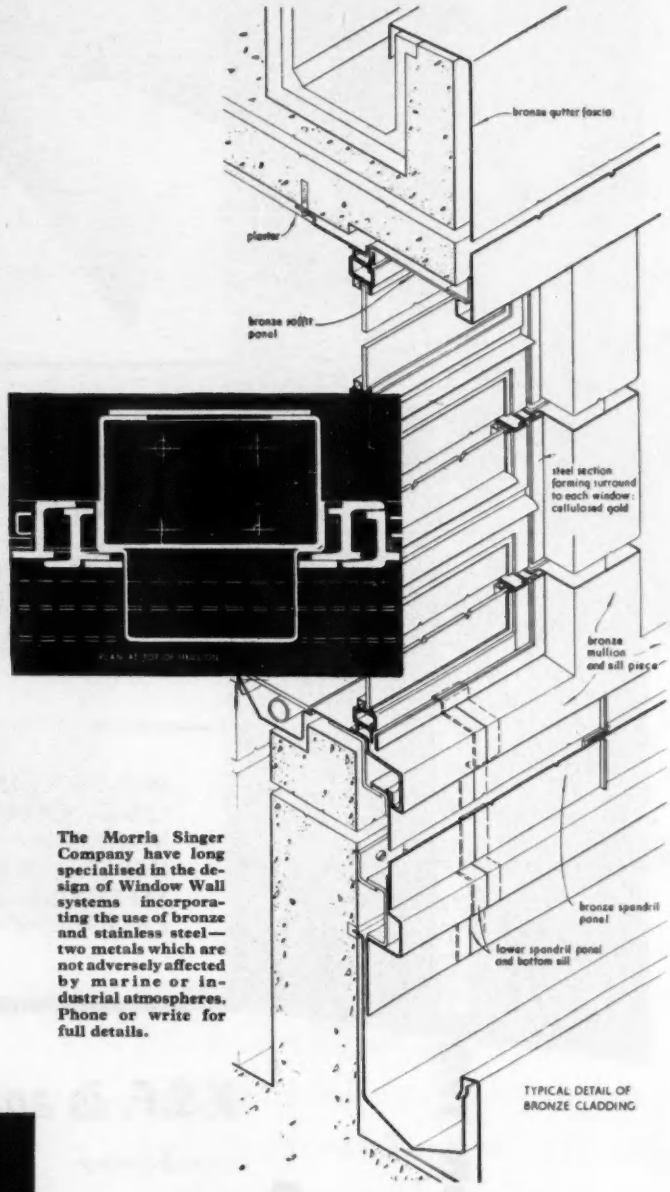


BRONZE CLADDING



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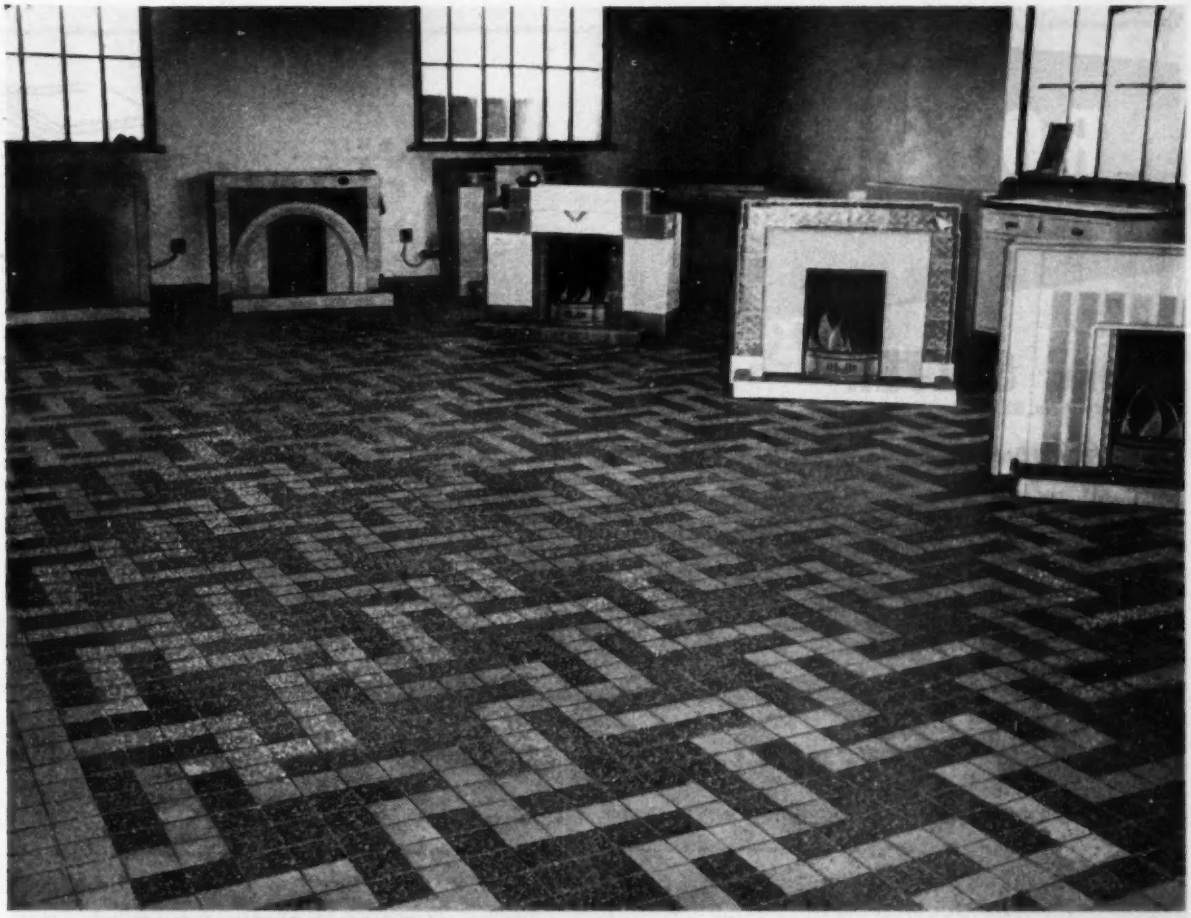

Photo by courtesy of Builders Supply Co., (Leabrooks) Ltd., Derby.

Photos (Above) Courtesy of Rolls-Royce Ltd.
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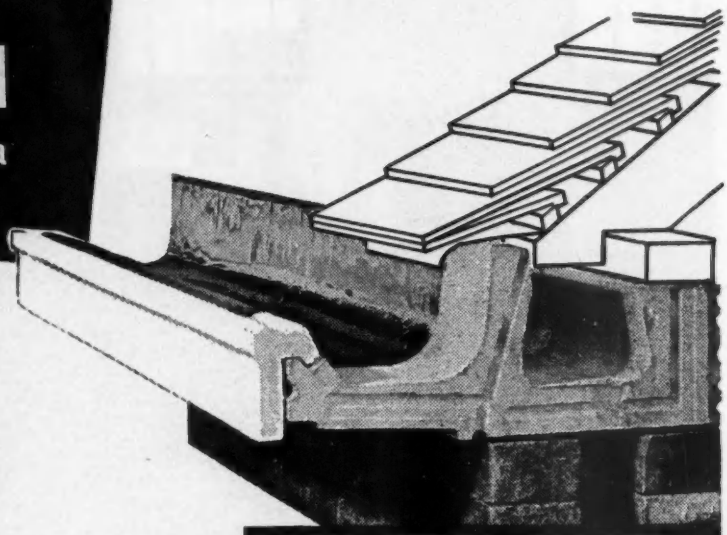

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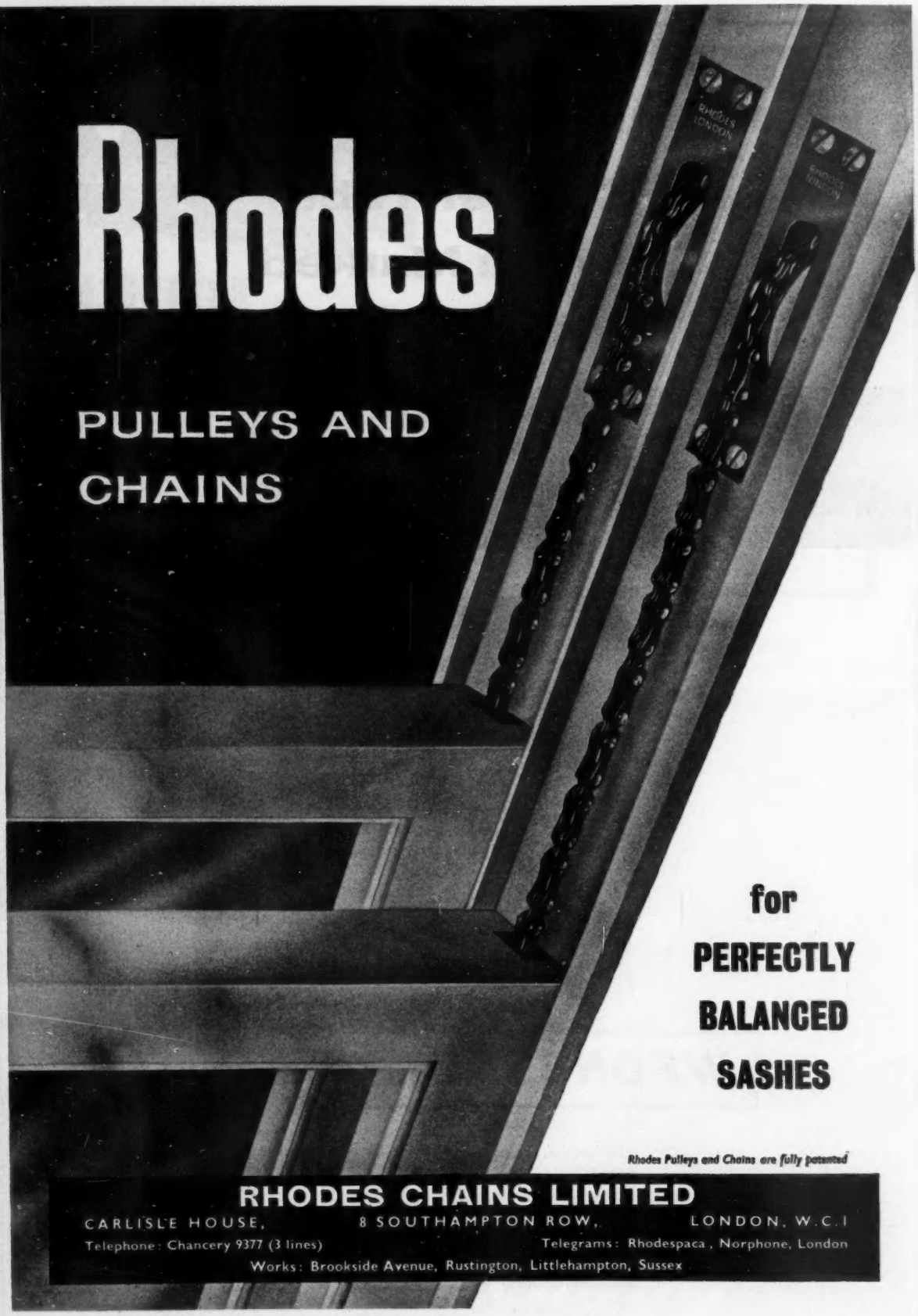

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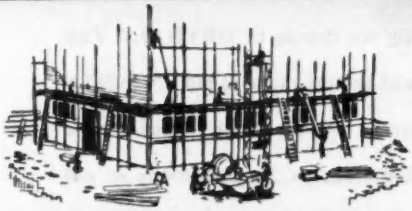

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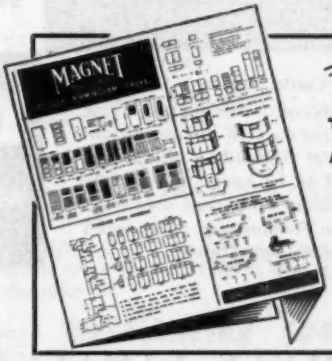

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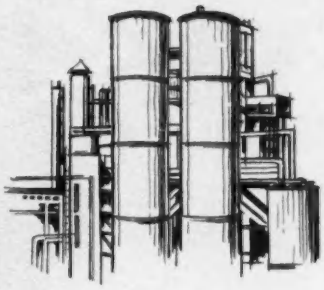

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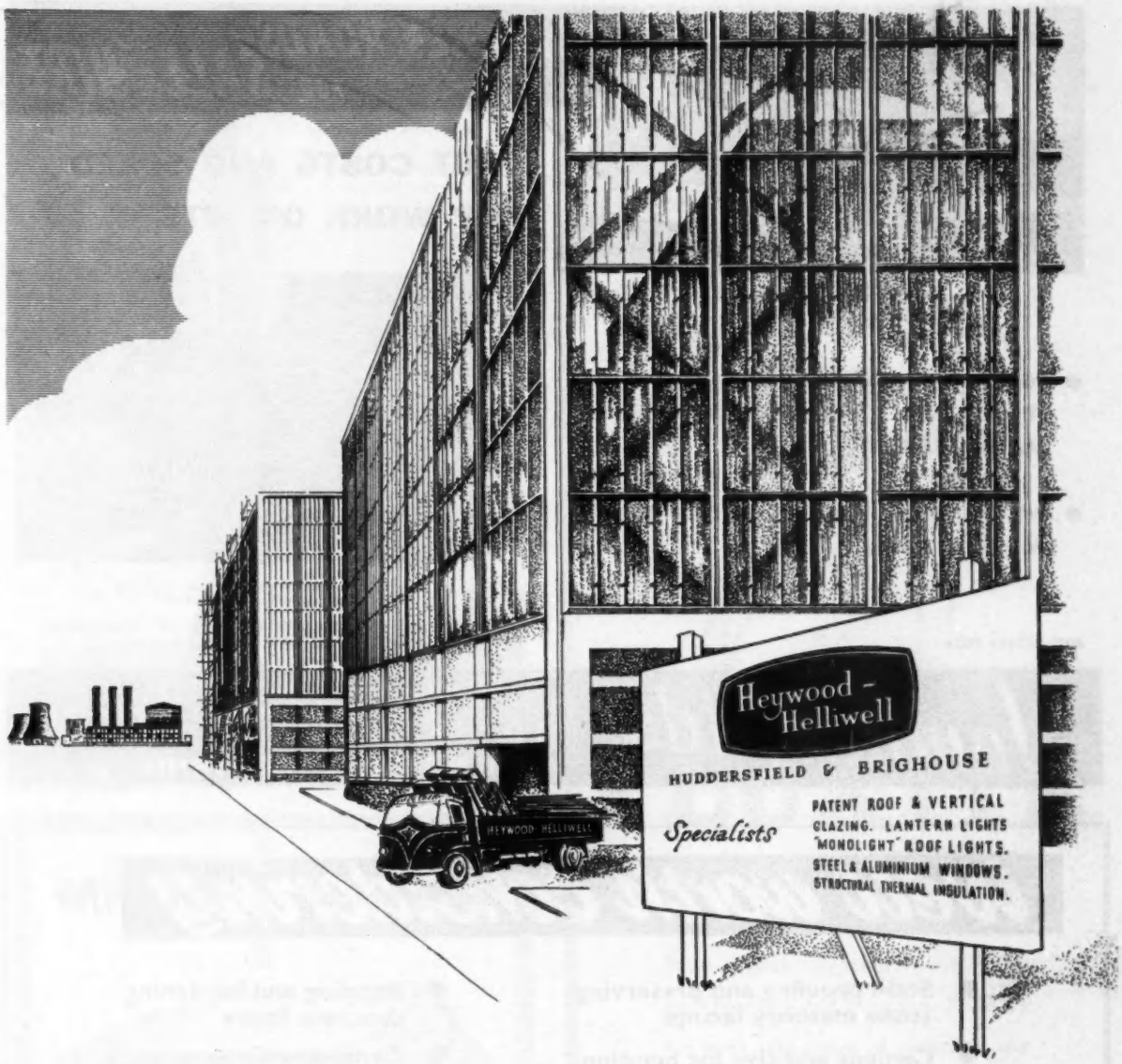

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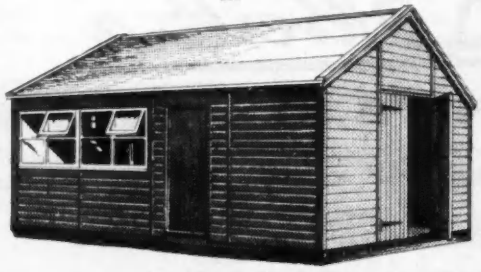

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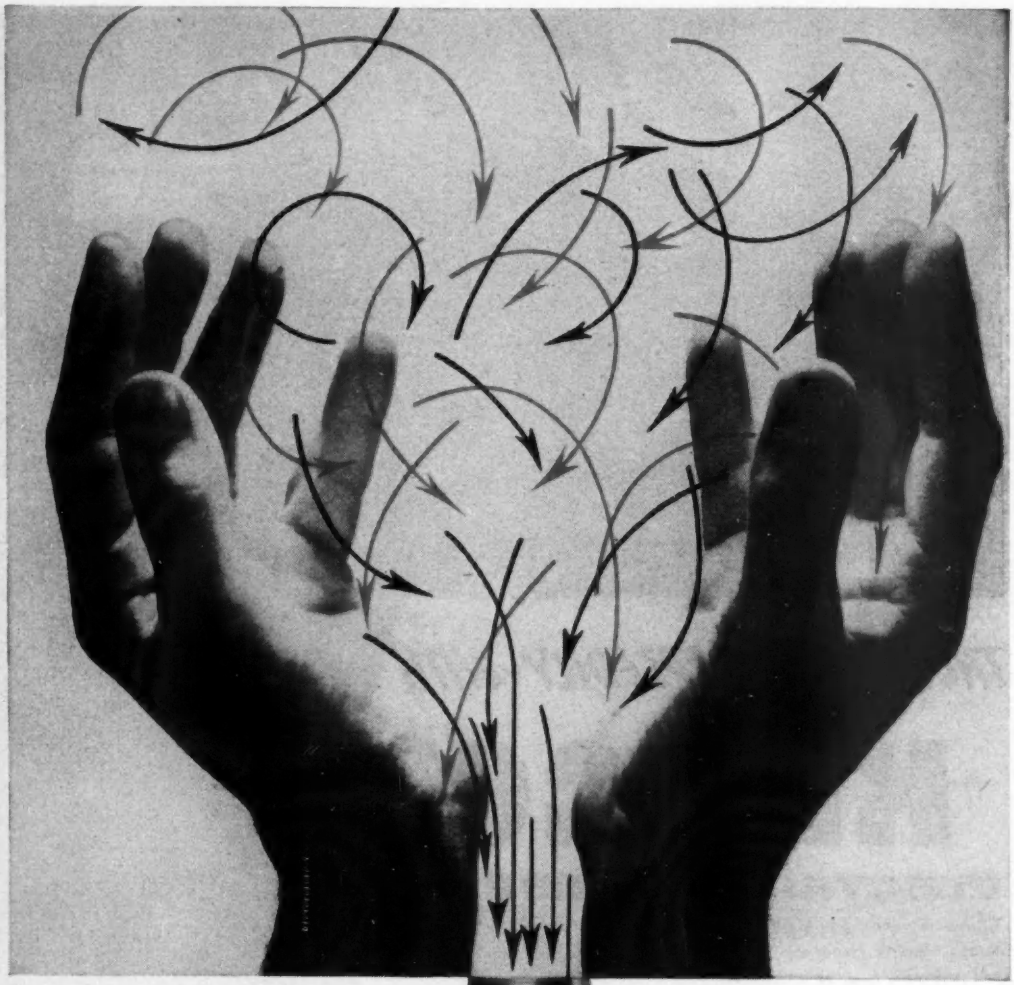

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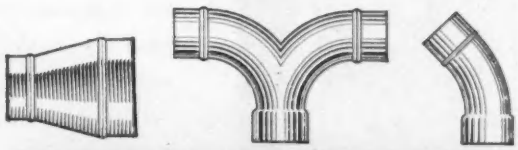

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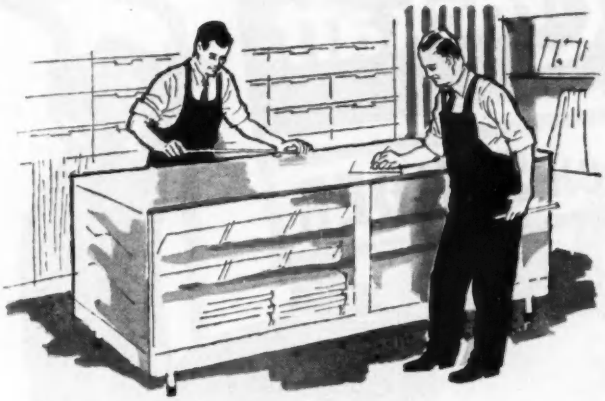

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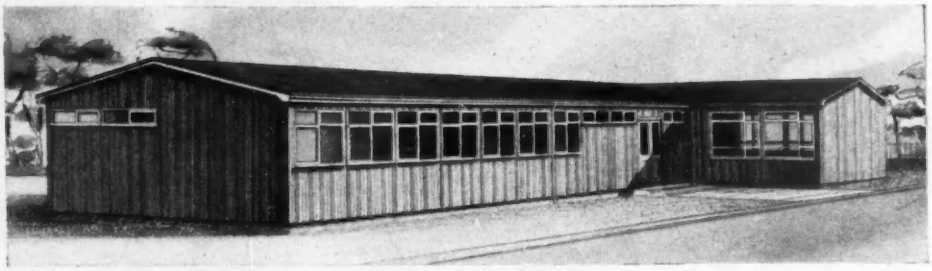

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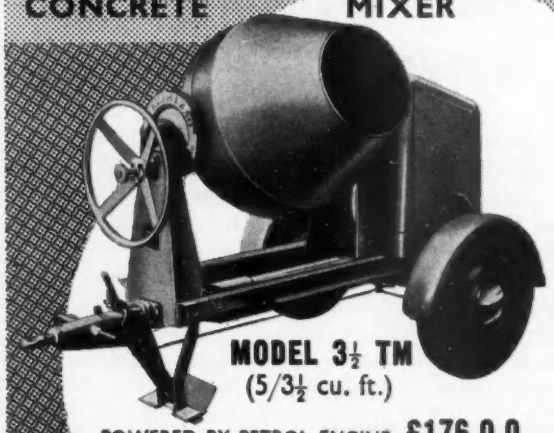

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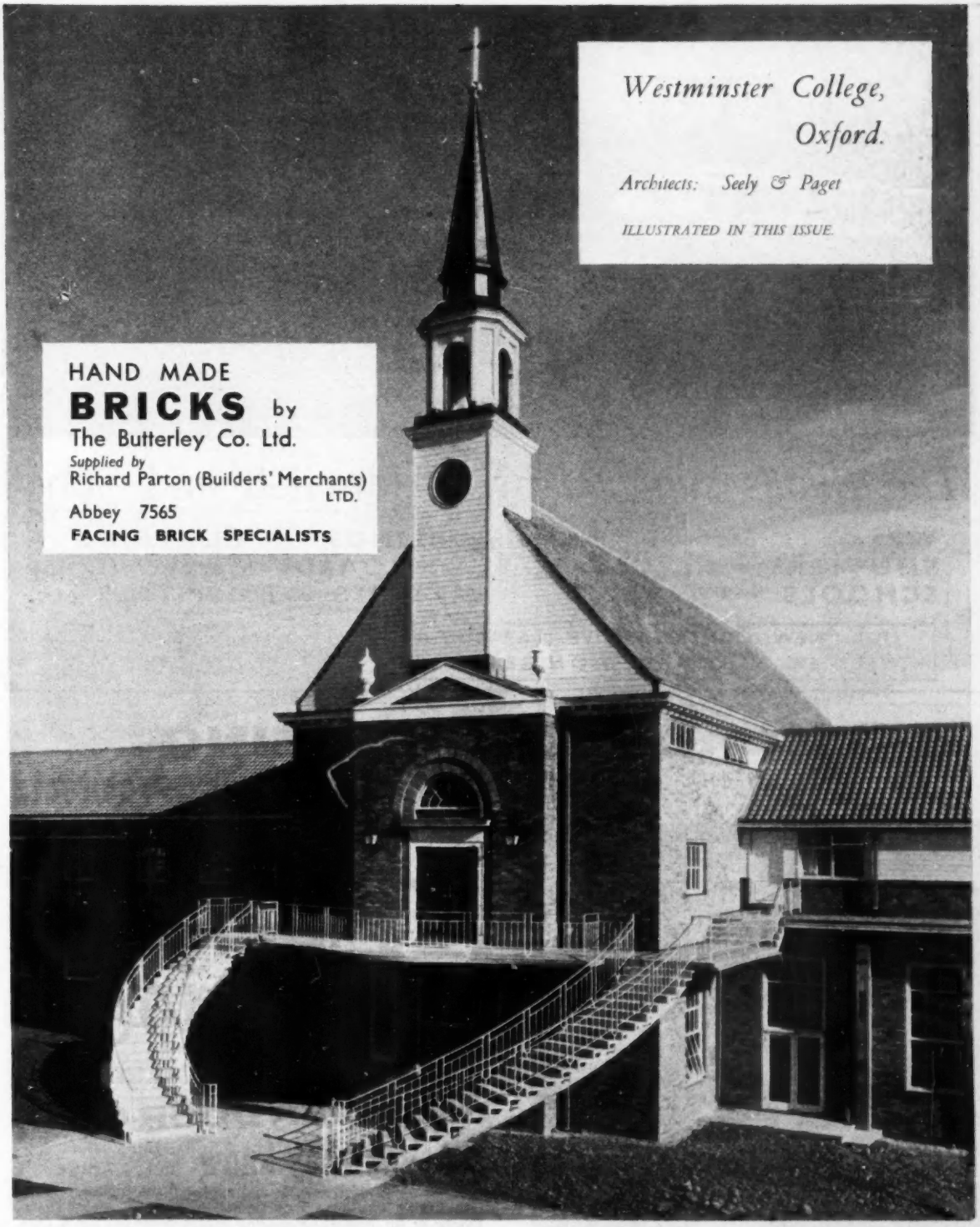

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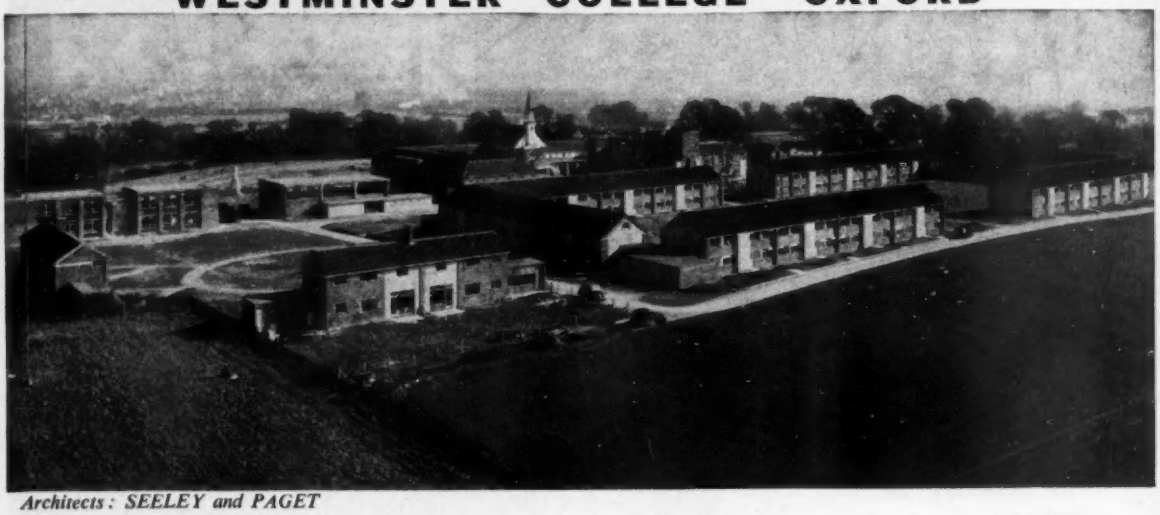

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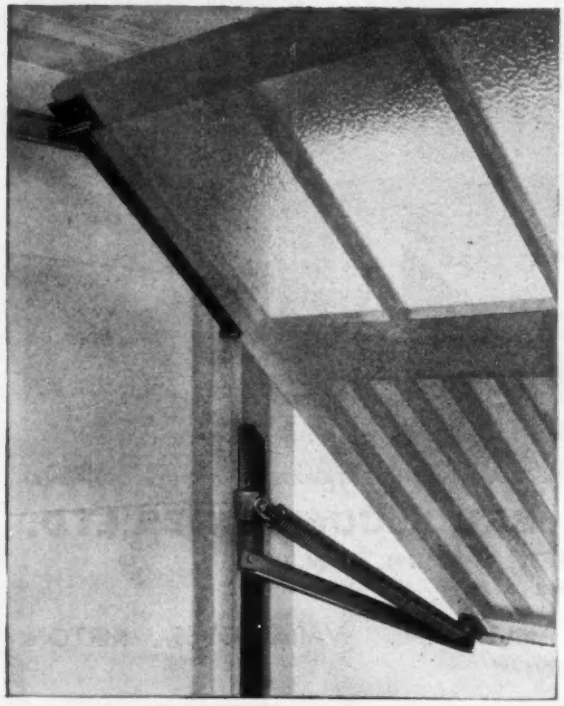

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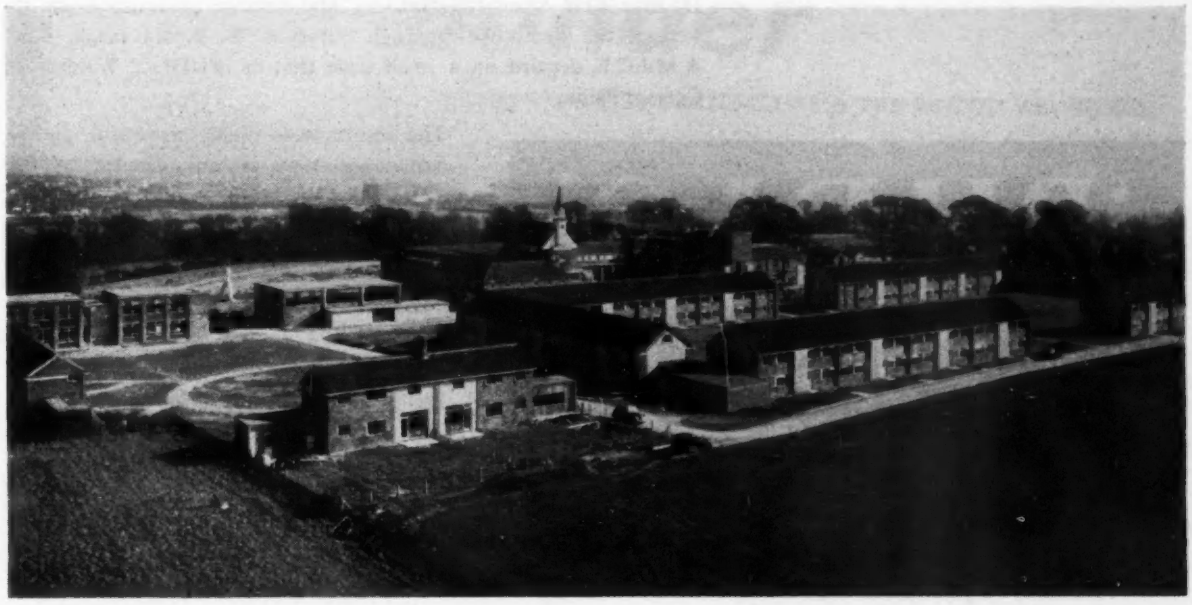

Architects: Messrs. Seely and Paget

Westminster College *North Hinksey, Oxford*

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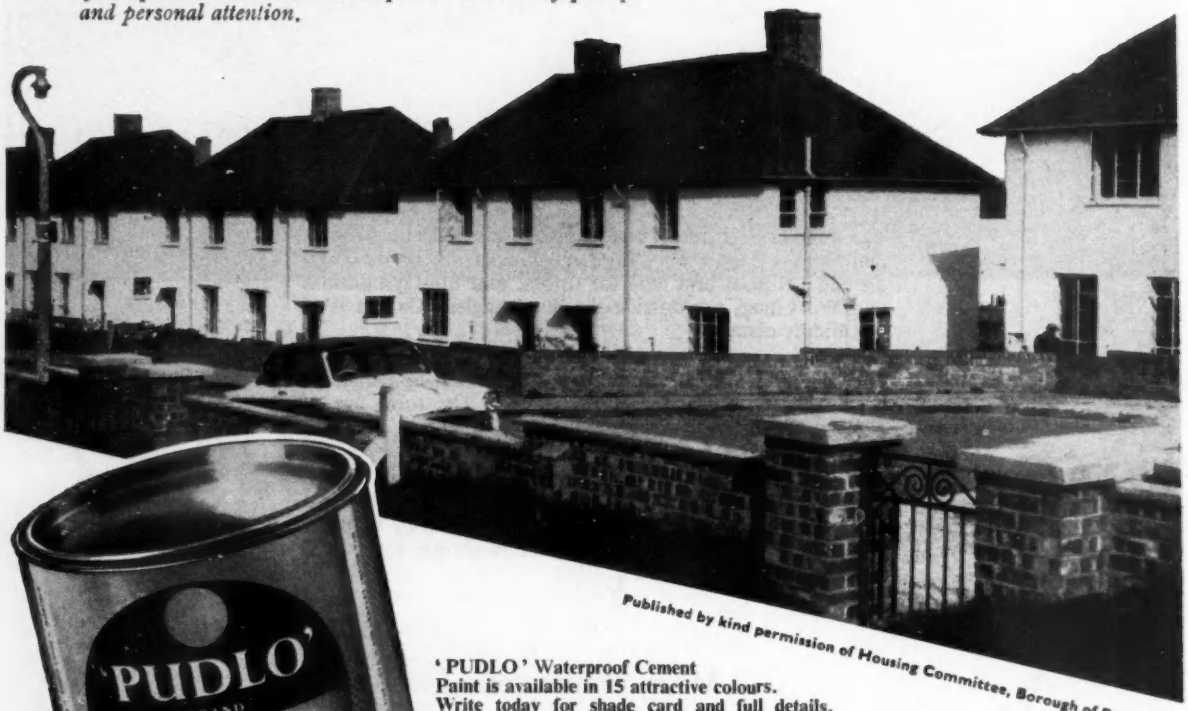

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News Summary

998b *An increase in building costs of eight points over the past 12 months is indicated in 'The Builder' Cost of Building Chart.*

1001 *The winning and other premiated designs in the international architectural competition for the new University Hospital of Wales, the results of which were announced in Cardiff on Monday, are illustrated.*

1007 *The London County Council has instructed its officers to proceed with negotiations for the expansion of several towns in Hampshire as an alternative to building a new town at Hook.*

1008 *Details are announced of the proposed international architectural competition for a new Library for Trinity College, Dublin.*

1009 *Mr. Henry Brooke, Minister of Housing and Local Government, has rejected the proposals for the redevelopment of the Monico site, Piccadilly, that were the subject of a recent public inquiry.*

1016 *Buckinghamshire county works department states that it is experiencing difficulty in obtaining sufficient labour for the current building programme and that the recent wage award has made it difficult to obtain tenders for schools within the cost-per-place allowed by the Minister.*

1015 *Although the City of London was only half-way towards complete reconstruction, floor space devoted to offices already exceeded the pre-war total by 7½ per cent, Mr. B. G. Arthur told the Court of Common Council.*

'Late News' will be found overleaf, and 'News of the Week' on page 1007

Builder

INCORPORATING ARCHITECTURE & THE BRITISH ARCHITECT

Vol. CXCVIII. May 27th 1960 No. 6106

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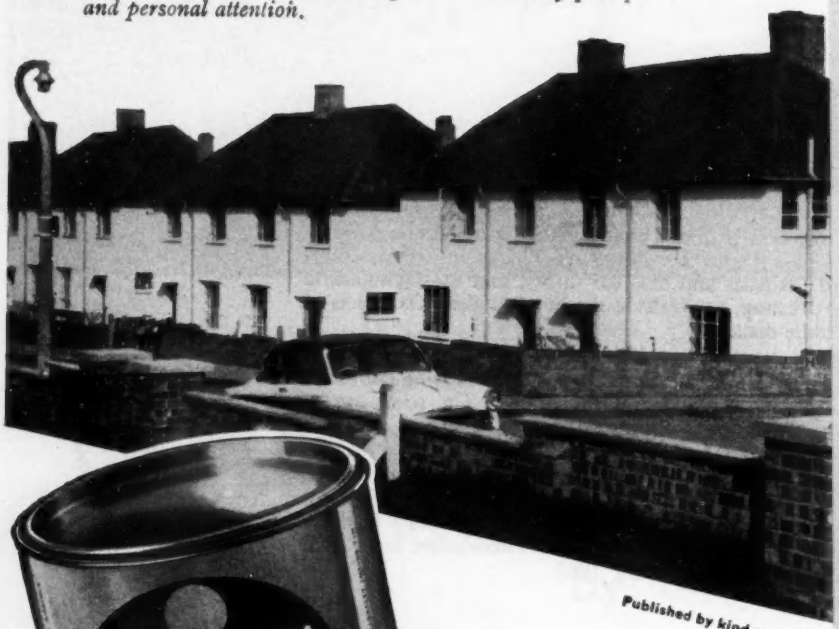

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Late News

Quality Standards in Building

SPEAKING AT A MEETING of the Chadwick Trust in London on Wednesday, May 25, MR. R. C. BEVAN, of the Building Research Station, DSIR, said that quality standards in building were becoming increasingly important as developments occurred in all branches of building technology. They included standards for materials and components, and for design, and performance standards for functional requirements of buildings.

'Much research and development are necessary as a preliminary to establishing standards of any kind,' said Mr. Bevan. 'The level at which standards are set is determined by many technical and economic factors and by the needs of the building user. They may be optional standards, or penal standards enforceable by law and this again may influence the level at which a standard was set.

'The demand for flexibility by designers arising from the introduction of new techniques has had its effects on the way in which standards are set in building legislation.'

Piccadilly Circus Redevelopment

A SHORT statement on the London County Council's policy regarding the redevelopment of Piccadilly Circus now that the Minister of Housing and Local Government has rejected the scheme submitted for the Monico site, was made by MR. RICHARD EDMONDS, chairman of the Council's town planning committee, at Tuesday's meeting of the Council. Mr. Edmonds said:

'On the possibility of preparing a comprehensive plan for Piccadilly Circus to which developers could be asked to conform, I welcome the Minister's suggestion that there should be discussions with his officers, and I am glad to say that these have already begun. Here is clearly the chance for some fresh thinking in what is, after all, largely a national matter and could involve national expenditure.

'The results of this initial consultation, which will include a review of the Council's original plan, will be studied carefully by the redevelopment and road improvements sub-committee of the town planning committee, and I hope that subsequently, and before reporting to Council, we can, in the interests of public satisfaction, throw the net of consultation even wider.'

Death of Mr. Paul Gilbert, OBE

WE REGRET TO REPORT the death, which took place in the South of France on May 22, of Mr. Paul Gilbert, OBE, chairman and managing director of Bovis Holdings, Ltd., and Gilbert-Ash, Ltd. Mr. Gilbert was founder-chairman of the National Contractors' Group of the LMBA of whose Contracts Committee he was chairman. Much sympathy will go to his widow and two children.

The Builder

INCORPORATING ARCHITECTURE & THE BRITISH ARCHITECT

Vol. CXCVIII. May 27th 1960 No. 6106

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All Change at Piccadilly!

THE DECISION OF the Minister of Housing and Local Government to refuse permission for the development proposed by Island (Piccadilly) Development Ltd., for the Monico site in Piccadilly Circus will be generally accepted in all the circumstances as a proper one. The facts elucidated at the inquiry in January last led the Inspector, MR. BUCHANAN, to conclusions which, summarised, are that the design of the proposed building had not attained the standard expected on the site; that the project did not offer a positive and immediate contribution to pedestrian safety; that car-parking arrangements were unsatisfactory; that the advertising panels proposed were too high and too large; that the proposals in general would prejudice a comprehensive plan for the development of the Circus; and to sum up, that the project and the planning proposals with which it was associated did not make the best of the opportunity which was now unfolding for Piccadilly Circus. With these views MR. BROOKE agrees, and proceeds to offer some suggestions, being his own approach to the difficult planning problems involved. Essentially this connotes the need for a comprehensive plan to which developers could be asked to conform, and he intends to arrange for his officers to discuss with the London County Council forthwith the possibilities, so that any building put up on the Monico site in the meantime should not prejudice any comprehensive plan that may be devised. Recognising that there has already been great delay, Mr. Brooke hopes that it may be possible to enable a building to go ahead on the site without further prolonged lapse of time. The Minister's views are expressed in a letter from the Permanent Secretary to the Ministry; this is given in full elsewhere in this issue, together with some extracts from the Inspector's report (page 1009).

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forward at the inquiry the architect responsible for the final design makes not unreasonable the deduction that there was official help given. In view of this, the developers may well have grounds for thinking they have been hard done by.

Yet the fact remains that neither the planning nor the scheme itself were good enough for this important site. We shall return to fuller consideration of the questions involved at a later date; for the moment the following points are among those that require thought by planners and developers alike:

Planning machinery must take into account areas as well as individual sites when city centre redevelopment is under consideration;

Planning permission machinery must be speeded up, and decisions (especially if they are to be adverse ones) given more promptly;

If the powers available for securing such development seem insufficient, then thought must be given to seeing what new ways can be found of negotiating between private and public interests;

And finally, that many of the present difficulties would hardly arise if developers would remember that first-class sites require first-class architects for satisfactory exploitation, and that no amount of subsequent tinkering will make an original poor design better than mediocre.

'Make London Livable'

THE WORLD has already seen enough of the problems of the motor age for it to be plain that no complete solution to them has yet been evolved, even in that home of the motor car, the United States. Nevertheless, travellers to the Continent and America, where efforts strenuous if not always wholly successful are made to ease the flow of traffic in congested cities, are amazed and appalled on returning to London to find that by contrast practically nothing has yet been done to tackle the traffic problems of the capital. It is to remedy this state of affairs that the 'Make London Livable' Group, which had its first meeting last week, has been formed under the chairmanship of Lord Bossom with the object of rousing public opinion to the need for action and so helping to bring together the various authorities whose united efforts will be required to save London from slow strangulation.

The Group is concentrating on proposals that are attainable over the next few years, and at a comparatively moderate cost, rather than seeking Utopian solutions. In this spirit is has launched a proposal to widen certain parts of the more congested thoroughfares, such as Bond-street, Oxford-street and Fleet-street, by setting back the shop fronts into the space now occupied by ground floor shopping space, also the fronts of offices, by 10 to 12 ft., thus making a new pavement available behind the present building line, the former pavements providing space for an extra traffic lane. The buildings above would be supported on columns. The idea could probably make a useful contribution to the traffic problem provided certain practical difficulties can be overcome. In the case of new buildings conformity, it is thought, could be achieved without any question of compensation arising by the simple expedient of allowing developers to increase the height of the building to allow for the space lost by the setback of the pavement. In the case of existing buildings more serious problems might arise, as one or two non-conforming buildings could obviously wreck a whole scheme.

None could quarrel with the aim of making London a better place to live in (which includes improving its appearance as well as easing its traffic problems), and in this we wish Lord Bossom and the architects, town planners, engineers and others who constitute the Group every success. If the Group can now obtain the sympathetic ear of Mr. Marples, the Minister of Transport, its task should be the easier.

Notes of the Week

Art and the LCC; Happy Memoir of Sir Giles; LCC's Architectural Training Scheme

IT IS BAD LUCK when alfresco occasions are spoiled by the sullen drip of English rain but, in spite of the dreary downpour (writes Marjorie Morrison) quite a large audience gathered under tents and awnings to hear Ballerina Beryl Grey open the fifth exhibition of open-air sculpture in Battersea Park. In her sincere informal speech Miss Grey paid tribute to the London County Council, as Patron of the Arts, for its courage and sense of responsibility in giving the public a chance of seeing examples of all the 'Schools' and current styles, and for presenting rising sculptors as well as established masters.

There are some forty pieces exhibited, representative of artists working here and in France. Very wisely there is something for everybody—all the different stages of understanding and appreciation are catered for. We are led from direct imitation of nature, in the humanist tradition, to the completely abstract. But the enchantment of it all is made by the setting. Sculpture likes the open air and weather, and all these figures, masses and strange shapes look wonderfully at home, viewed across the lawns, in their leafy niches or grouped by the lake. The old sub-tropical area of Battersea, enclosed and hidden within the Park, has the quality of a secret garden, and works, which might in a gallery have come as a shock to the unsophisticated viewer, are accepted without surpise in this 'delicious solitude.'

* * *

THERE IS SPACE HERE only for the highlights and to urge all sculpture lovers to visit the park and pick out their own favourites. Epstein, Moore and Picasso

'Influences of Research on Building Design'

IN NEXT WEEK'S ISSUE *of 'The Builder' begins a series of three articles on Recent Developments in Acoustics, by Mr. William Allen, BArch, ARIBA (Chief Architect, the Building Research Station). They form part of a group of articles on 'Influences of Research on Building Design' which he is contributing to 'The Builder.' The first deals with the problems of design caused by the noise of Helicopters in Cities; the second with Loudspeaker Installations and how to obtain high standards of realism; and the third with Sound Reproduction built-in to the home. This important series is exclusive to 'The Builder' and no architect should miss them.*

are the Big Three. Epstein has been included in recognition of the debt owned to him by all contemporary sculptors. He is represented by his 'Ecce Homo' of 1935 and a 'Mother and Child' of 1911. This 'Man' that Epstein has released from the block of stone, square and strong but suffering, has the vitality and dramatic power that marks a masterpiece. The other is an example of his early work, stored away and never before seen in public. It was cast this year for the first time. As an Epstein it is static and classical but very interesting from the point of view of his development. Henry Moore brings his 'Glenkiln Cross' from a hillside in Scotland, a rudimentary rubbed-down cross, the figure and cross merging into one—a truly noble work. Picasso, however, is more challenging with his six free standing, bronze figures, the 'Bathers,' grouped by the lake. It would seem that his sculpture has developed in the same direction as his painting, not reproducing natural appearances but penetrating to an inner truth.

Among the runners-up Reg Butler, Robert Adams and Ralph Brown show courage and sincerity but it is Germain Richier, at her most expressionist in 'Le Berger des Landes' who will be the favourite among the discerning.

Happy Memoir of Sir Giles

THE MEMOIR contributed to the May issue of the 'AA Journal' on Sir Giles Scott deserves to be read by a wider public than it may reach. In it Mr. Lesslie Watson, who entered Scott's office in 1927 'as a hero worshipper and finished in 1935 as a senior assistant with a profound respect for his master,' pays the most charming and sincere tribute to his old master which will inform a generation which knew him not and delight those who did. Scott's ways with clients, his ways with his correspondence (he signed the letters first and read them afterwards), his car (a dust-coloured Rolls-Royce 'which did not show the dirt'), the dance lessons which he took 'because he found it was desirable for a PRIBA to be able to dance'; these and other points touch-in deftly the outline impressions which many have of an outwardly austere though genial character.

LCC's Architectural Training Scheme

THE ANNOUNCEMENT in 'The Times' of May 20 that the London County Council 'is willing to train a few selected candidates as architects' has interest at a time when architectural education is at the cross-roads. Candidates must be below the age of 25 on October 1 next, and must have passed the GCE in five subjects of which at least two must be at 'A' level. Ability in draughtsmanship must be shown.

Selected trainees, it seems, will be employed in the Council's service and will attend the part-time course on three evenings a week at the Regent-street Polytechnic school, and the Council will give each candidate one whole day each week free from office duties for study purposes. Pay during training ranges from 109s. 6d. under 17 to £8 15s. 6d. at 25. Posts are offered in the Council's service on qualifying.

This return to pupilship supplemented by theoretic study is in contradistinction to full-time school training; the progress of the scheme will be watched with close interest.

'Tall Buildings in New York'

ARCHITECT Sir Howard Robertson will take the chair at a meeting arranged by the Yerbury Foundation for Thursday, June 2, at the RIBA, 66 Portland-place, W1. The speaker on this occasion will be Mr. Ely Jacques Kahn, who will deliver a lecture on 'Tall Buildings in New York.' Admission to the meeting, commencing at 6 p.m., is free.

Looking Beyond Piccadilly

The Case for Public Relations in Planning

BY WALTER MANTHORPE, ARICS, DIPTP[LOND], AMTPI

(Director of Planning, Toronto)

TO THIS TRANS-ATLANTIC VISITOR during the Christmas of 1959, the most impressive feature of London life was the sense of growing prosperity and the accompanying many large-scale redevelopment projects. It was noticeable that life in England is rapidly acquiring practically all the social and economic characteristics which are found in North American cities. These facts gave rise to a concern that Britain would be able to resist the traps that accompany a period of boom and retain its native conservative philosophy which has in the past seen the nation through many less attractive crises. It was, therefore, a source of delight that public attention was found to be concentrated on the development of the Monico site in Piccadilly Circus as showing that people are really interested in the development of cities and that they are not necessarily going to be satisfied even with buildings which are acceptable to the planning authorities. Of course, the technical Press has properly, and for a long time, been critical of the professionals but this was a case where the national dailies and the weeklies were just as interested. And it was not just a matter of enthusiasm being whipped up artificially by the newspapers—there was public discussion everywhere.

Poet's Corner

The Monico scheme with its tower of lights
Will never be one of the West End sights,
And whether we're glad, unmoved or grieved,
Something has clearly been achieved—
A chance for the critics who chill our spines
To get out some really good designs!

ANON.

Canadian Practice

People were really interested, and this public response reminded one of the massive public meetings which do so much to affect the course of planning in North America. In a city like Toronto there are numerous ratepayer organisations each concerned to see that their own particular district receives what they consider to be the most satisfactory planning and zoning treatment, and no planning official who values his job would introduce new proposals without carefully preparing the ground for them by a campaign of education and explanation. Public co-operation is practically essential to the implementation of redevelopment schemes in most parts of Canada. It is also taken for granted that the motive for participation is economic self-interest on the part of property owners, but that is simply a reflection of the local culture. That most people were discussing the aesthetics of the Monico building was a sign that the boom had not yet taken Londoners by the throat, and that the Atlantic is still a useful divider. Nevertheless, it was seemingly by accident that the Monico affair had been brought to public notice whereas North American experience would suggest that positive steps by planning authorities to explain their ideas to as large an audience as possible are essential to the realisation of schemes of any magnitude.

In the event, the Monico Inquiry received quite unusual publicity and it was no doubt this which caused the Inspector to mention in his closing remarks the thin ice over which the authors of many of the 450,000 words of evidence and argument had skated. He must have been aware of the extraordinary circumstances surrounding the application to develop the site, and his remark perhaps reflects the self-con-

sciousness felt by planners in seeing attention focused on an inquiry which is by no means representative of the hundreds of investigations which annually form an important part of the planning process in England.

An Unusual Case

It was an unusual case first, because of the site itself—one of great sentimental significance to people all over the world. Then the building—perhaps more of a hoarding than a building because it seemed that the income from external advertising would be greater than that from rental of floor-space, requiring consideration from many different aspects, among them the high buildings policy, advertisement control, plot ratio, daylighting, architectural control and, above all, from the point of view of comprehensive redevelopment. The application for permission was of special interest because the design of the building was apparently more that of the planning authority than of the owners' architects. And then the Inquiry, one at which the architect for the building failed to appear!

But publicity was the keynote, for the Inquiry itself was held only because of pressure from groups and individuals outside those immediately concerned. The LCC had made up its collective mind to give permission, the developers obviously had no desire to place their proposals in jeopardy, and the Minister can have had no wish to intervene in a matter which was virtually concluded to the satisfaction of the parties. This happy situation was only disturbed because people wanted to know what was going on. The outcome was an Inquiry which was merely one more of the rather narrow and less-than-transparent windows through which people at large are allowed occasionally to watch the planning process at work.

The most useful purpose may have been served if planning authorities are stimulated into realising that haphazard, unsought publicity is most damaging to their work and that this will occur more frequently in the future because boom conditions will cause more and bigger private redevelopment schemes. A great deal has been achieved in the past, almost in committee, because so much of the actual building has been done by local authorities themselves in the field of housing. The time is now arriving when central area renewal will be carried out by private enterprise, to the discomfort of planning authorities which are not prepared to meet the flood of development with their own well-prepared comprehensive plans, including plans for capital expenditure on services and traffic facilities. Even with these preparations, an adequate programme leading to public co-operation will still be essential. It may be tiresome to repeat that planning is concerned with people, but the great mass of legislation, procedure and technique we are forced to employ in the planning of cities sometimes obscures this simple truth. Sound planning policies can, in the long run, be conceived and executed only if the public at large is brought into the confidence of the planners.

An understanding between the planners and the planned can form the basis of a private-public partnership which will operate in many different fields and at different levels of endeavour. At a relatively simple level there was the case in Toronto of a residential area lying close to the up-town commercial centre which had for some years been split by conflicting demands for re-zoning. Its position made it subject to heavy pressure for the use of large old houses for institutional and office purposes, whilst the resident-owners were divided between those who wished to take a profit and move out, and those who wished to remain to enjoy the amenities which the district has to offer. New zoning measures had to be devised by the planning authority, but tempers were hot and it was obvious that no rational debate of the issues could be undertaken in the prevailing atmosphere of partisanship. The problem was approached by preparing a limited edition of a comprehensive report and making this available to all the citizen organisations concerned with the area. In addition a neutral civic organisation was approached and its members agreed to study and master the report with the help of the planning staff. Then these members went to the organisations directly concerned and organised study groups so that everyone had a clear grasp of the basic information, the issues, the arguments and the solutions proposed. By this time there was a solid body of informed opinion in the area and this had a great stabilising effect at public meetings which were called after every household had been sent a booklet containing a brief summary of the original report. In the long run, the re-zoning was accomplished with relatively little public frustration and to the credit of the planners.

Toronto's Civic Square

Perhaps more comparable with the Monico incident is the case of a site opposite to the City's new civic square and city hall. It is a frontage of rather poor shops, restaurants, hotels and cinemas which in appearance alone would provide a most unsuitable frame to the city's soon-to-be-erected magnificence. There was known to be considerable buying and selling of property going on because the site would obviously appreciate in value but the great barrier to accepting private re-development consisted, first, of the improbability that the land would be acquired by one person for a comprehensive scheme and, second, that the zoning permitted a plot ratio of 12:1. This latter density would allow a building of overpowering and unacceptable bulk. Toronto was disturbed by this æsthetic threat but conversely it was not prepared to reduce the plot ratio because of the hardship it would inflict on the owners. The issue was resolved by preparing an outline drawing of the building which would be acceptable from an architectural and planning aspect. The economic and other factors were investigated and the whole scheme described in a concise report which was distributed to the public including the local association of architects, the real estate agents, the business men's associations and the chamber of commerce. Meetings were also held with these bodies and their support obtained.

The outcome is that there is every likelihood of the City's purchasing the land compulsorily in the knowledge of general support. The site will be put on offer to developers on the understanding that they will lease the land for the purpose of erecting a building similar to that designed by the planning authority whilst the City's capital outlay may be largely met by inviting the tenderers to pay a premium for the lease instead of an annual rental. In the long run this will prove to be a very paying proposition for the municipality.

These are only two instances in a wide range of cases which have forced the planning authority to engage a Liaison Officer on its staff for the purpose of preparing public relations documents, organising public meetings and maintaining the connections with Press, radio and television.

A Significant Step

A most significant new step is the setting up of an officially recognised Redevelopment Advisory Council consisting of men at the head of industrial and and commercial organisations such as insurance companies, trust companies, investment houses and banks. The planning officer acts as secretary to the Council which will study the condition of and plans for the central area. It is empowered then to comment on planning proposals and may assist in securing sound redevelopment especially in ways which lie beyond the scope of ordinary planning control. It may even be involved in raising money for desirable schemes. The creation of this body has no doubt been undertaken with one eye on the central area schemes of such cities as Philadelphia, Detroit and Pittsburg, which all owe a great deal in one way or another to private enterprise participation in publicly conceived and supported schemes.

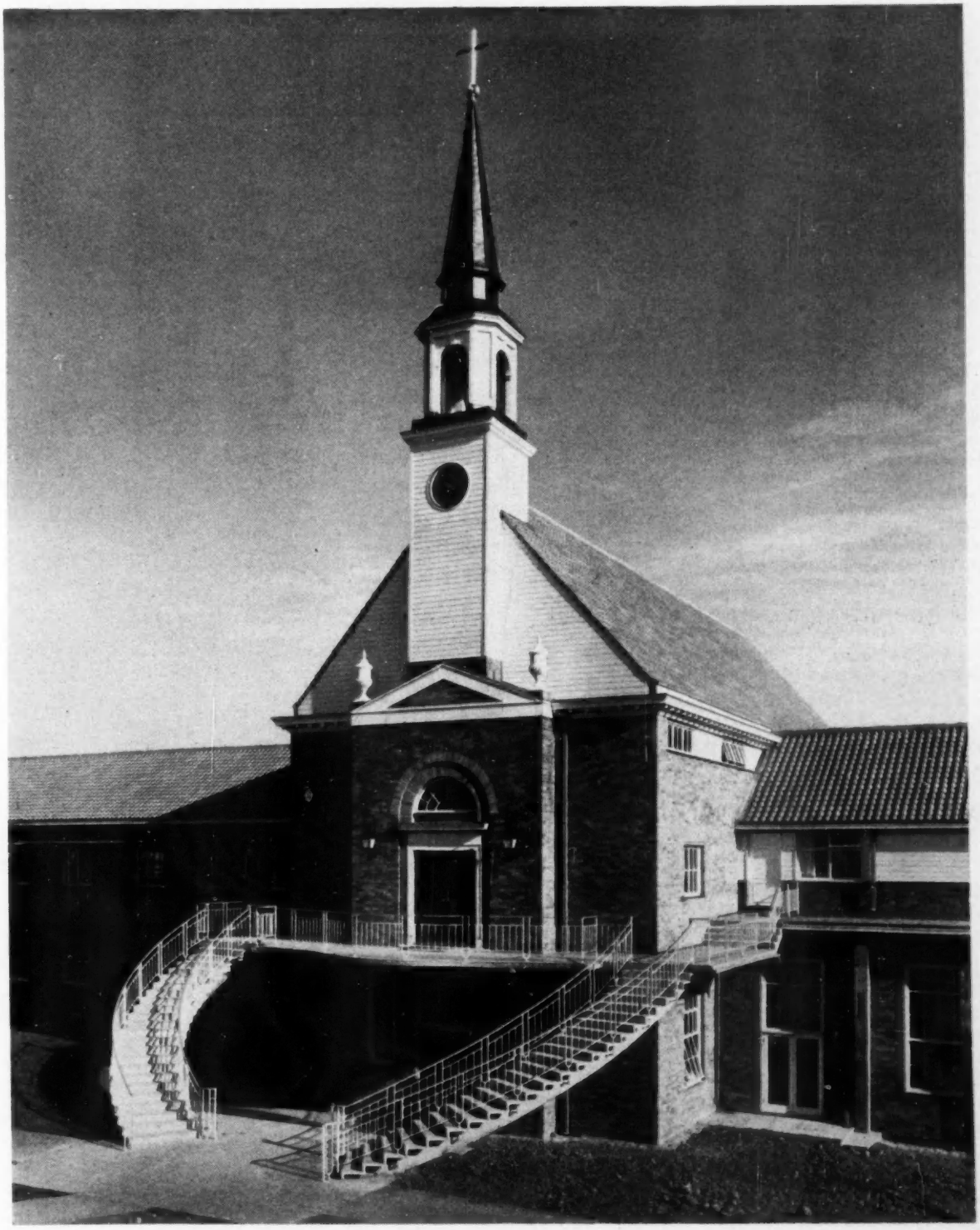
Public relations in the planning field, therefore, go a long way beyond simply telling people what you are doing. It takes many forms and can be an important instrument in the achievement of public aims. In England, planners constantly return to the old and undeniable truth that good development is difficult without land ownership. They follow with a plea for public ownership and are frustrated by the lack of capital available to local authorities for planning purposes. But it is noticeable that in North America, where economic pressures are much stronger and developers much tougher, there have been comprehensive schemes of great size, due very largely to the persuasive and co-operative efforts of the planning authority working hand in hand with enlightened private groups. Not all the results have been acceptable, but they do suggest another method of approach in some circumstances. Perhaps the time has come for us to bring planning out into the open and frankly to present our problems and proposals to land owners, developers, builders and to the public at large.

Westminster College, Oxford

SEELY & PAGET, architects

HAJNAL & MYERS, structural engineers

LANGDON & EVERY, quantity surveyors



J. ROGER PRESTON & PTRS., mechanical and electrical engineers

MARSHALL ANDREW & CO. LTD., general contractors

THE NEW BUILDINGS of Westminster College, North Hinksey, Oxford, were opened on May 21, 1960, by the Rt. Hon. Sir David Eccles, KCVO, MP, Minister of Education. The College, formerly in London, is the teacher training foundation of the Methodist Church. Over 250 students and staff will live and work in an environment corresponding closely to an Oxford college, and current extensions will provide accommodation for a total of 400 students by Autumn, 1962.

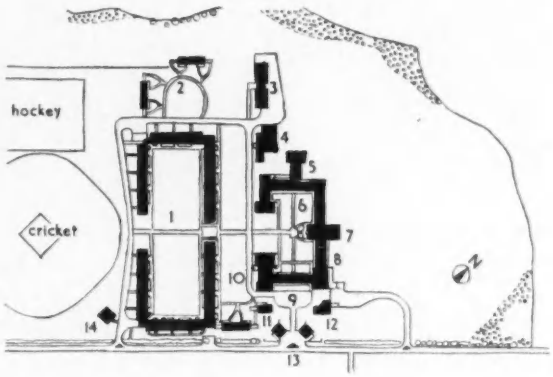
The design is based on traditional conceptions of collegiate building. Students live in rooms built on the Oxford 'staircase' principle, and the chapel, library, lecture rooms, common room and miniature hospital are grouped to form a series of quadrangle courts. The local planning authority made stringent conditions covering the use of materials that would harmonise with the character of local buildings. Particular attention was paid, therefore, to exterior materials for the new buildings. The choice of Windsor Grey facing bricks for walls, and hand-made Cotswold tiles for roofs, has enabled the desired harmony to be achieved. The present buildings cover approximately ten acres, and there are 26 acres of playing fields. A service road forms the perimeter of the buildings to east, north and west, intersected on the latter side by the main gate. The gymnasium and handicraft blocks are just beyond the perimeter to the east; houses for the principal, vice-principal, bursar and chaplain adjoin the main gate.

The construction of the students' houses is part rc framed with panel infilling, and part load bearing.

The houses are arranged in six blocks, containing 22 units. Each house has ten study bedrooms. The rooms have been designed for easy conversion from sitting-rooms to bedrooms; wash basins are enclosed in wood cabinets, and divan beds will be covered during the day. Each staircase unit has showers and bathroom, trunk cupboard, drying room and pantry for communal use.

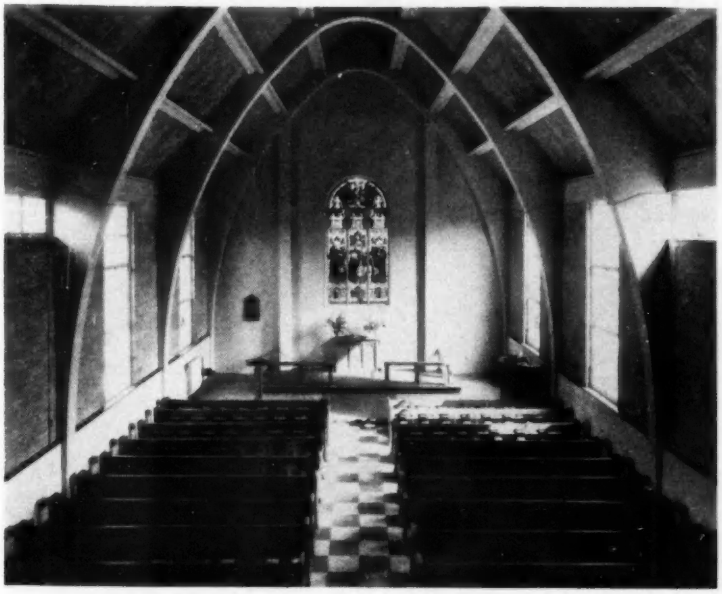
Four houses for married tutors and four flats for single tutors have also been built, together with three lodges for two porters and one groundsman.

The Chapel is at first-floor level, and is reached by two curved external staircase flights. The Chapel is constructed of precast concrete parabolic arches, each weighing 7 tons,

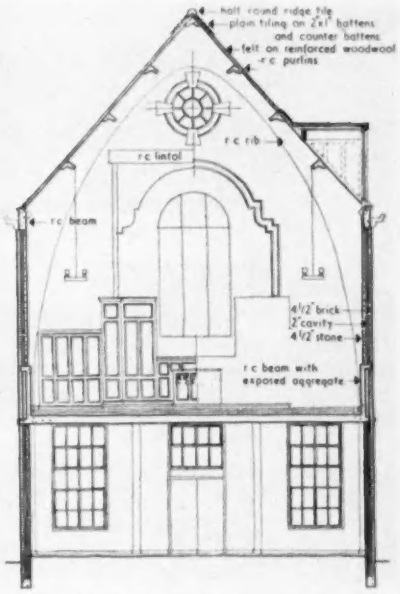


Key to site plan: 1. Students' Block, 2. Tutors' Block, 3. Handicraft Block, 4. Gymnasium, 5. Science Block, 6. Students' Common Room & Lecture Rooms, 7. Chapel & Library, 8. Dining Hall & Kitchen Block, 9. Administration Unit, 10. Assembly Hall, 11. Vice-Principal's House, 12. Principal's House, 13. Main Entrance, flanked by two Lodges, 14. Groundsman's Lodge.

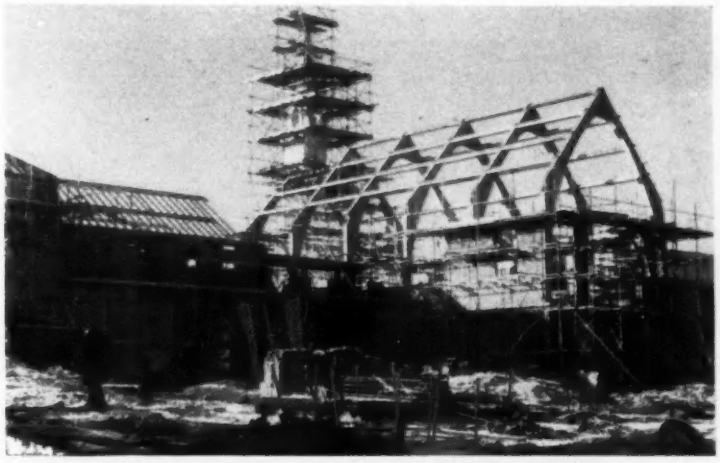
Below, general view of the group



Interior of the chapel

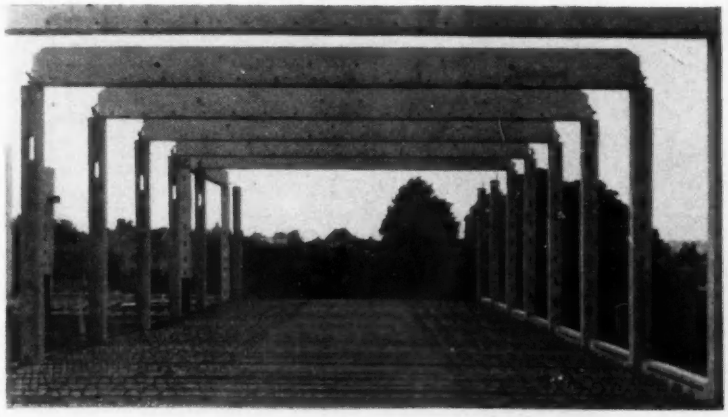


CHAPEL Scale: 1 in. = 16 ft.



Parabolic arch construction of the chapel

Precast columns and beams on the laboratory wing



connected below the window-sill level by means of an 'in situ' edge beam. This has been left in an exposed aggregate finish, and above sill level the chapel is faced internally with stonework.

The lecture rooms, laboratories, soundproofed music school and administration wing are built of reinforced concrete. The columns are precast in one length and inserted into pockets in the mass concrete foundations. Floors are prestressed planks on precast edge beams which are monolithic with an 'in situ' topping, and tie the columns together at each floor level. At roof level the columns are tied by precast beams.

The assembly hall has an rc structure, and the dining hall structure is a series of rc rigid frames.

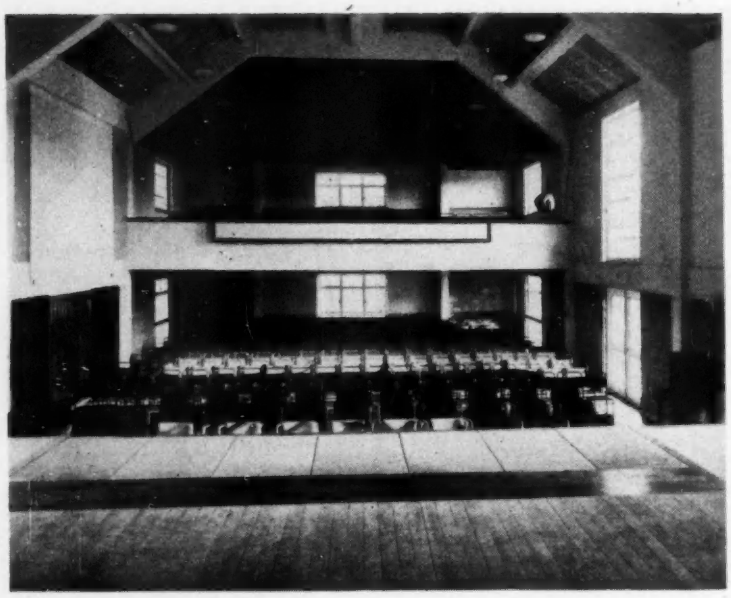
Heating is by low-pressure hot water from oil-fired boilers.

The contract sum, excluding equipment and fittings, was £500,000.

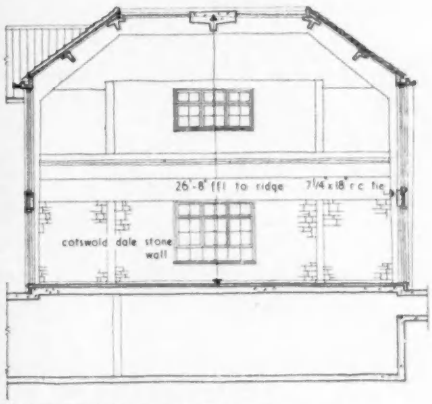
Sub-contractors & Suppliers:

Sanitary fittings: William Dibben & Sons Ltd.; *pyrok spray:* Commercial Vermiculite Ltd.; *precast concrete:* Cawood Wharton & Co. Ltd.; *ironmongery:* Comyn Ching & Co. (London) Ltd.; *w.c. toilet cubicles:* Compactom Ltd.; *reconstructed stone:* Cotswold Dale Stone Co. Ltd.; *flush doors:* Flush Woodwork Ltd.; *timber carcassing to chapel spire:* Samuel Elliott & Sons (Reading) Ltd.; *precast gutter units:* Finlock Gutters Ltd.; *floor & wall tiling:* Harradine Rouse & Co. Ltd., Talbex Ltd.; *metal windows:* James Gibbons Ltd.; *science equipment:* A. Gallenkamp & Co. Ltd.; *prestressed concrete floor beams:* George Greenwood & Son; *stage equipment:* G. B./Kalee Ltd.; *floor finishes:* Haskel Robertson Ltd.; *wood blocks & strip:* Hollis Bros.. Ltd.; *wood wool slabs:*

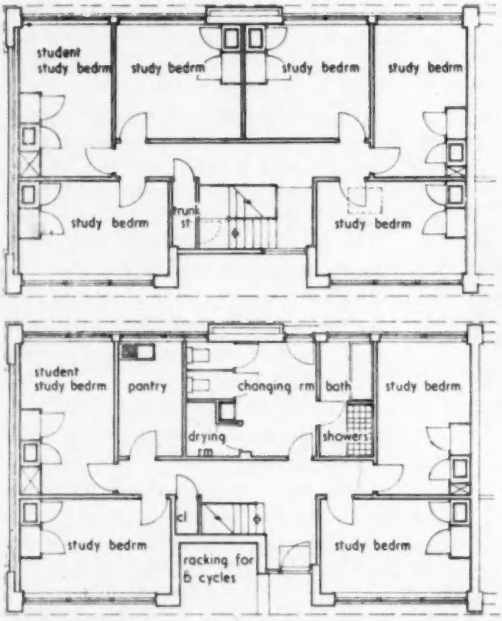
Westminster College Oxford



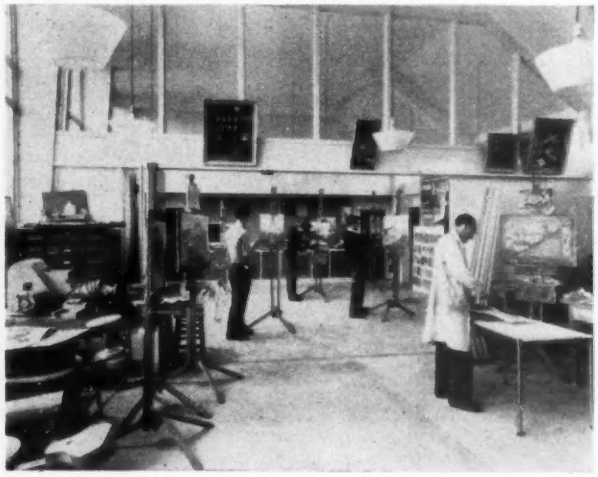
Assembly hall, towards the gallery



ASSEMBLY HALL Scale: 1 in. = 16 ft.

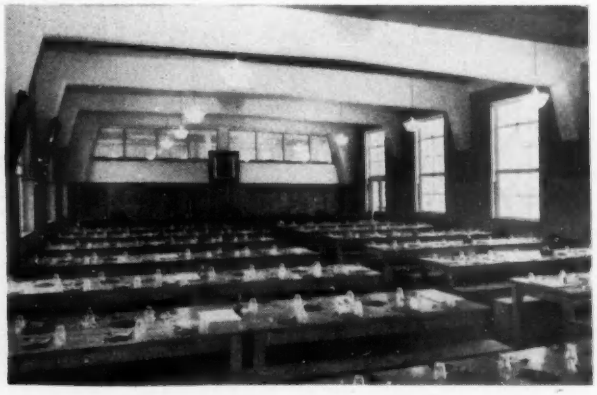


STUDENT DORMITORIES
Scale: 1 in. = 16 ft.



Art studio

Rigid frame construction of the dining hall



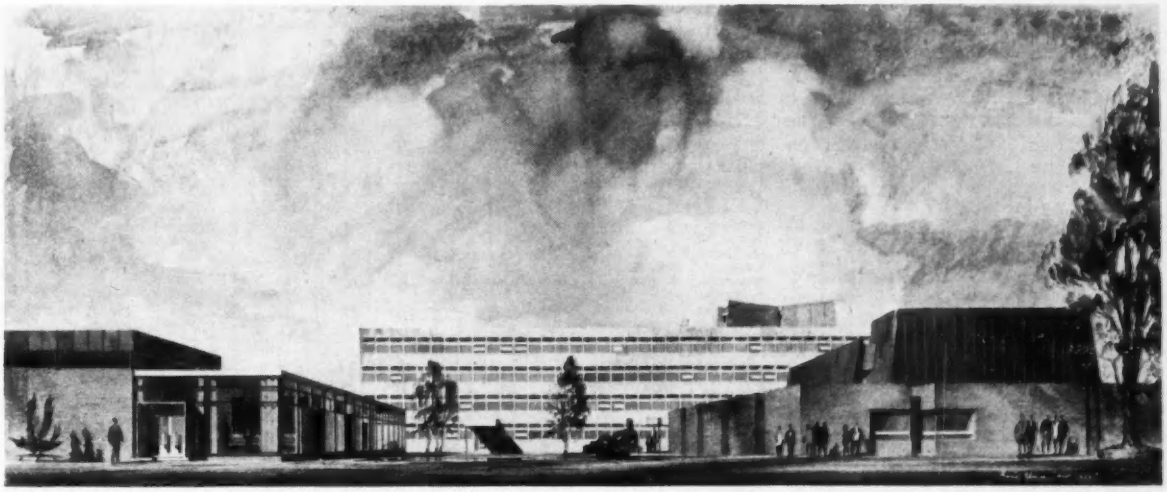
Thermacoust Ltd.; *metal balustrading:* The General Iron Foundry Co. Ltd.; *gymnastic equipment:* Olympic Gymnasium Co. Ltd.; *service lift:* Keighley Lifts Ltd.; *playing fields & tennis courts:* William Wood & Son Ltd.; *timber decking units:* H. Newsum Sons & Co. Ltd.; *organ:* Nicholson & Co. (Worcester) Ltd.; *art stonework:* Marriott & Price Ltd.; *plumbing:* J. Martin (Brockley) Ltd.; *bricks:* manufactured by The Butterley Co. Ltd., and supplied by Richard Parton (Builders' Merchants) Ltd.; *glazed wall finishes:* Robbs Cement Enamel Finishes Ltd.; *roller blinds:* Tidmarsh & Sons; *roller shutters:* Shutter Contractors Ltd.; *fibreboard ceilings:* Tentest Fibre Board Co. Ltd.; *timber panelling:* John P. White & Sons Ltd.; *stained glass window restoration:* C. E. Welstead.

Proposed University Theatre

For The University of Southampton

BASIL SPENCE, RA, PRIBA, architect

DR. RICHARD SOUTHERN, theatre consultant



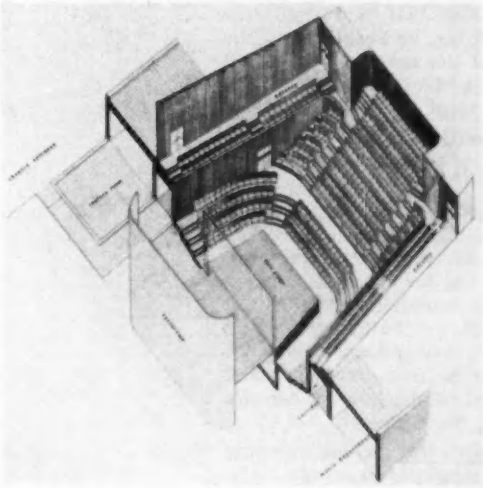
The theatre is an integral part of the arts faculty building

THE NUFFIELD FOUNDATION has made a grant to the University of Southampton of £130,000 for building a University Theatre. It will be known as the Nuffield Theatre. The University will have about 2,000 students by 1965 and twice this number by 1980 distributed over the six faculties of arts, science, engineering, social studies, law and education. A greater increase is proposed in the numbers of students in science and engineering than in the other faculties, and the Trustees of the Foundation have been impressed with the possibility of the Theatre becoming a unifying power between the sciences and the arts.

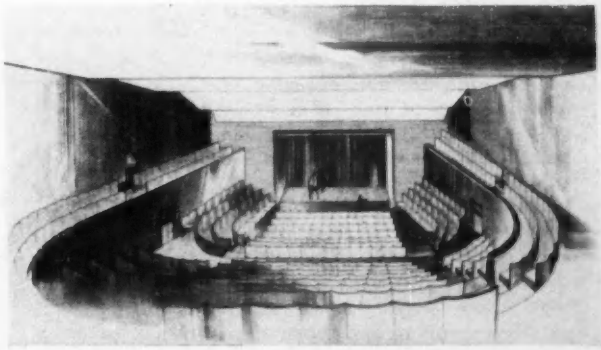
The immediate University programme calls for an Arts Building. By placing it adjacent to the Senior Common Room building, a courtyard will be created. This is the first new courtyard in the post-war development of the University and will be laid out with lawns, trees, pools and sculpture. The unique feature of the arts building is the inclusion of the fully equipped Theatre with some interesting technical features. It is located in the centre of a single storey block which contains the principal lecture rooms and, on one side, the Music Department. From the overall planning aspect, the site is at the focus of the University, adjacent to the senior and junior common rooms and the projected great hall, and is provided with car-parking facilities. Visually, the theatre will be seen as the principal element in the quadrangle, the copper clad walls growing out of a simply modelled brick base, and against the stone-faced four-storey arts block, which will appear as a backcloth. The internal planning of the Theatre is carefully co-ordinated with the requirements of the Arts Faculty.

Seating for 510 is provided, and the double stage is designed to serve two functions: (a) for lectures and orthodox theatre-shows, in scenic style, of the 'picture-frame' type behind a fixed proscenium frame; (b) the presentation of experimental shows and lectures in 'non-scenic' style, of the open-stage type, on a variable fore-stage projecting into the auditorium.

Quantity Surveyors: Reynolds and Young; structural engineers: Ove Arup and Partners; mechanical and electrical services: G. H. Buckle and Partners; acoustics consultant: Dr. H. D. Parbrook.



Axonometric and perspective interiors



'The Builder' Cost of Building Chart

Variations from 1914 to Date

(*Copyright: H. J. Venning, FRICS, and 'The Builder'*)

CHARTS on this and facing page show (Chart A) the fluctuations in Wages and Building Costs from 1914 to date, and (Chart B) the rise in Wages, Materials and Building Costs over the years 1939 to 1960. They have been compiled by Mr. H. J. Venning, FRICS, ARIBA.

The index is shown as standing at 373 compared with 365 in June, 1959.

The volume of work is apparently flowing with great and increasing strength but it is spread rather unevenly and this has resulted in irregular tendering. Also the difference between alteration work and large new contracts is becoming more and more marked. Consequently the index figure which is an average for ordinary building work does not accurately represent either of these extreme cases, and due allowance must be made for the type of work.

It would seem that the recent wage increase will not be absorbed by the industry and the cost will be passed on in the form of higher building costs.

Materials still show no marked change, although here also, there does appear to be a very slight upward trend.

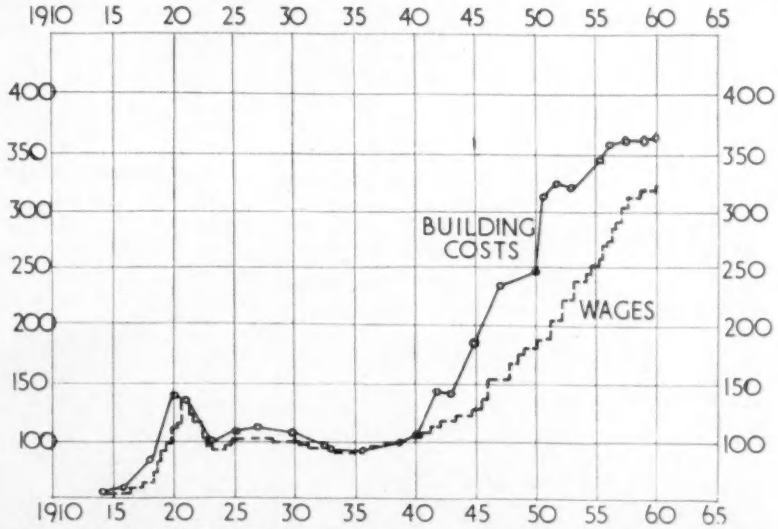
The line showing Building Costs is in each case based on actual tenders for the normal run of building contracts. The line for Materials is based on the figures published by the Central Statistical Office. The line for Wages is based on a conventional average of one labourer to one craftsman, and takes account of the indirect benefits as shown in the table.

The line does not include anything to do with incentive payments.

WAGES

Wages of one craftsman and one labourer (London rates) separately and conjointly with an allowance for emoluments such as the guaranteed week, holidays with pay and allowances under the working rules.

Date	*Craftsman Labourer*	*Conjointly*	*Pence*	*Percentage Allowance*	*Actual Cost in Pence*	*Index Figure*
June, 1939	1/9 +1/3¾	3/0¾	36·75	+ 5	38·59	100
December, 1939	1/9½ +1/4½	3/1¾	37·75	,,	39·64	102·7
January, 1940	1/10 +1/4¾	3/2¾	38·75	,,	40·69	105·4
June, 1940	1/10½ +1/5¼	3/3¾	39·75	,,	41·75	108·2
September, 1940	1/11 +1/5¾	3/4¾	40·75	,,	42·78	110·8
February, 1941	1/11½ +1/6¼	3/5¾	41·75	,,	43·84	113·6
June, 1941	2/0 +1/6¾	3/6¾	42·75	,,	44·89	116·3
February, 1942	2/0½ +1/7¼	3/7¾	43·75	,,	45·94	119·05
February, 1943	Holiday Stamp	3/7¾	43·75	+ 5¼	46·04	119·3
April, 1943	2/1¼ +1/8	3/9¼	45·5	,,	47·89	124·1
November, 1944	2/2¼ +1/8¾	3/11¼	47·25	,,	49·73	128·8
February, 1945	2/2¼ +1/9¼	3/11¾	47·75	,,	50·25	130·2
July, 1945	2/3¼ +1/10	4/1¼	49·5	,,	52·09	135·0
October, 1945	Guaranteed Week	4/1¼	49·5	+ 6½	52·72	136·6
January 1, 1946	2/7½ +2/1¼	4/8¾	56·75	,,	60·44	156·6
September 30, 1946 ...	Increase H.I.	4/8¾	56·75	6¾	60·58	157·0
February, 1947	Travelling	4/8¾	56·75	7	60·72	157·3
September, 1947	Holiday Stamp	4/8¾	56·75	7¼	60·86	157·7
November 16, 1947 ...	2/10½ +2/3¾	5/2¼	62·25	+ 7	66·61	172·6
July 5, 1948	Health Scheme	5/2¼	62·25	+10	68·48	177·4
July 11, 1948	2/11 +2/4	5/3	63·0	,,	69·30	179·5
February 7, 1949	2/11½ +2/4½	5/4	64·0	,,	70·4	182·4
October 3, 1949	2/11½ +2/5	5/4½	64·5	,,	70·95	183·9
February 6, 1950	3/0 +2/6	5/6	66·0	,,	72·6	188·1
July 3, 1950	3/0 +2/6½	5/6½	66·5	,,	73·15	189·5
February 5, 1951	3/0½ +2/7	5/7½	67·5	,,	74·25	192·4
March, 1951	3/3 +2/9½	6/0½	72·5	,,	79·75	206·6
March 26, 1951	Holiday 3d.	6/0½	72·5	,,	79·75	206·6
April 2, 1951	Holiday 3d.	6/0½	72·5	,,	79·75	206·6
October 1, 1951	Increase Insurance	6/0½	72·5	,,	79·75	206·6
February 4, 1952	3/6 +3/0½	6/6½	78·5	+10½	86·74	224·8
April 7 & 11, 1952	Holiday Stamp	—	78·5	10¾	86·9	225·3
October 6, 1952	Increase Insurance	—	78·5	11	87·13	225·8
February 2, 1953	3/8 +3/2½	6/10½	82·5	10	90·75	235·2
April 6, 1953	Extra week's holiday	—	82·5	12	92·4	239·4
February 1, 1954	3/9 +3/3½	7/0½	84·5	11¾	94·43	244·7
May 24, 1954	3/10½ +3/5	7/3½	87·5	11½	97·56	252·8
February 7, 1955	3/11 +3/5½	7/4½	88·5	,,	98·67	255·7
April 18, 1955	4/1½ +3/7	7/8½	92·5	11	102·67	266·0
April 4 & 11, 1955	Holiday Stamps 1/– and 6d.	—	92·5	12	103·6	268·5
June 6, 1955	Increase Insurance	—	92·5	12½	104·06	269·7
February 6, 1956	4/2½ +3/8	7/10½	94·5	11¾	105·6	273·6
April 16, 1956	4/5 +3/10½	8/3½	99·5	11½	110·9	287·4
February 4, 1957	4/6 +3/11½	8/5½	101·5	10¾	112·4	291·3
April 1 & 22, 1957	Holiday Stamps 1/– and 6d.	—	101·5	12	113·68	294·6
May 27, 1957	4/7½ +4/1	8/8½	104·5	11¾	116·78	302·6
September 2, 1957	N. Insurance 2d. Increase	8/8½	104·5	11¾	116·78	302·6
February 3, 1958	Do. 1/11					
February 3, 1958	4/8½ +4/2	8/10	106·5	12½	119·81	310·5
June 23, 1958	4/9½ +4/3	9/0½	108·5	12½	122·06	316·3
July 7, 1958	N. Insurance 2d. Increase	9/0½	108·5	12½	122·06	316·3
February 2, 1959	4/10½ +4/4	9/2½	110·5	12½	124·04	321·4
March 23, 1959	Holiday Stamp 3d.	9/2½	110·5	12½	124·32	322·2
April 6, 1959	Do. 6d.					
April 18, 1960	5/1 +4/5½	9/6½	114·5	12½	128·5	332·9

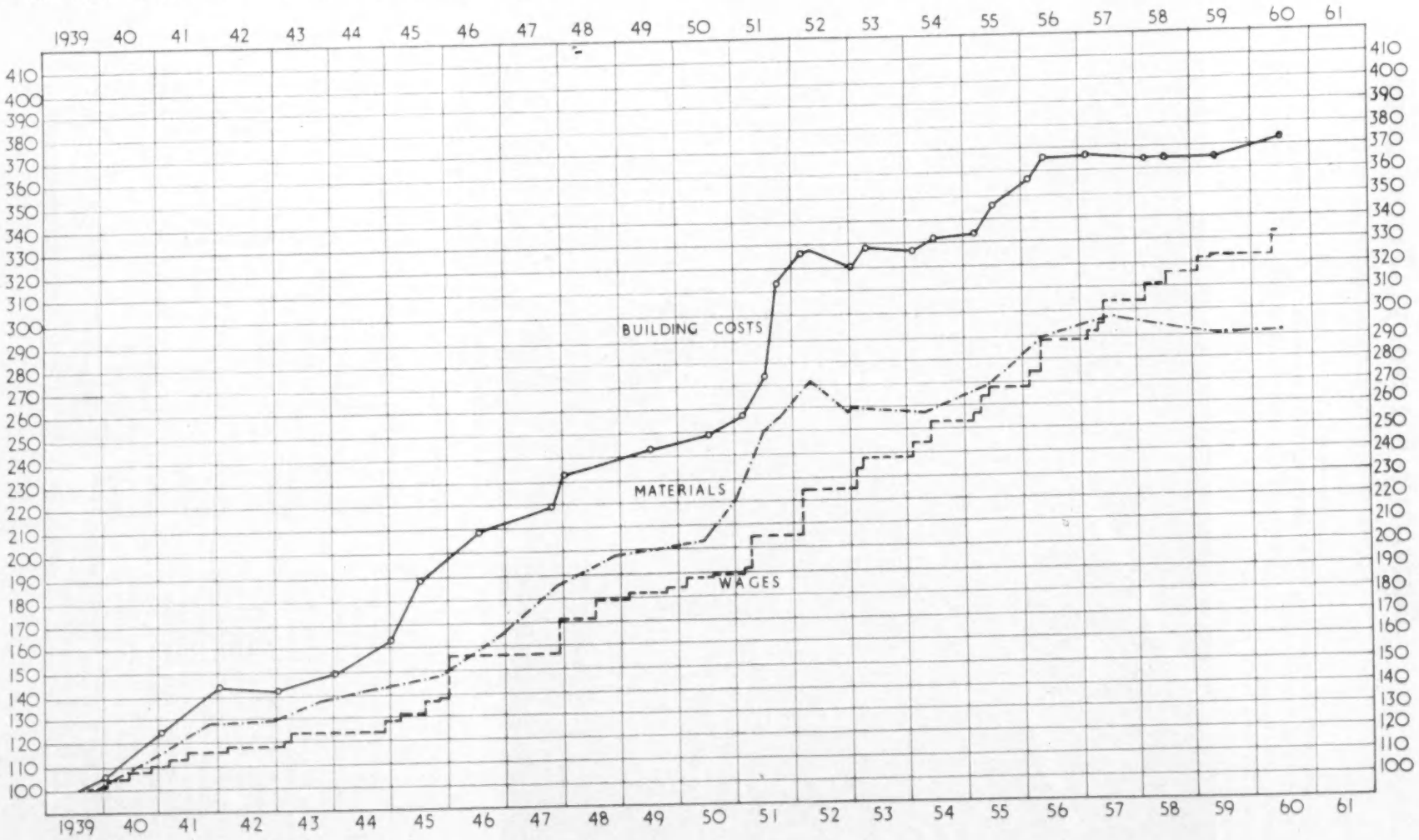


Building Costs, 1914-1960: This chart (A) shows the fluctuations in Wages and Cost of Building from 1914 to date

'The Builder' Cost of Building Chart

Reprints of this Chart, printed on stiff card, are now available for office use. Copies may be ordered from the Publisher, The Builder, Ltd., 4 Catherine-street, Aldwych, London, WC2, price 1s. 3d. each (1s. 6d. post paid). Orders for one dozen copies or more are post free. In every case cash should accompany the order.

THE COST OF BUILDING.—*Variations from 1939 to May, 1960, shown in Charts prepared by H. J. Venning, FRICS, Chartered Quantity Surveyor*



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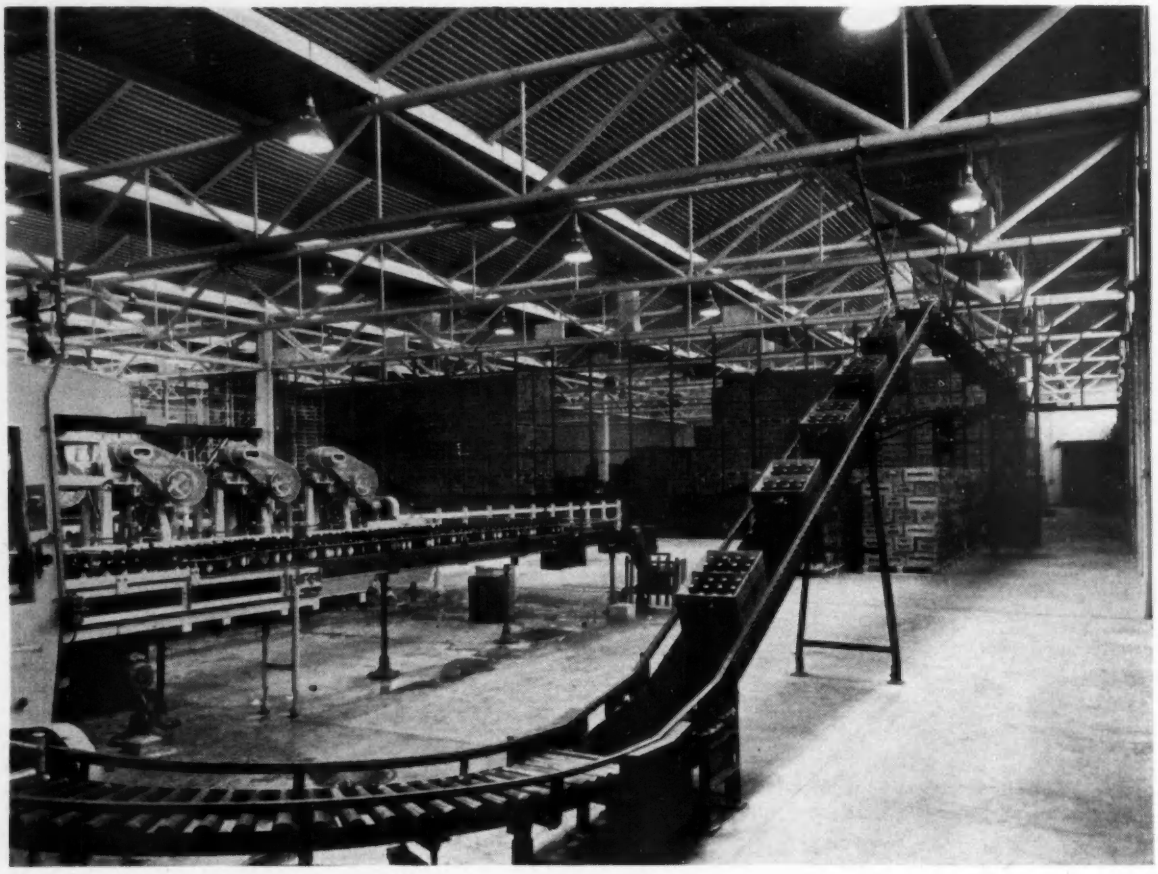
BUILDING COSTS, 1939-1960 (CHART B).—*Plotted above are the fluctuations in Wages, Materials and Building Costs over the years 1939 (Datum 100) to May, 1960. It is estimated that the figure at May, 1960, is 373, compared with 365 in June, 1959. On facing page are itemised the various wages and other increases since 1939*

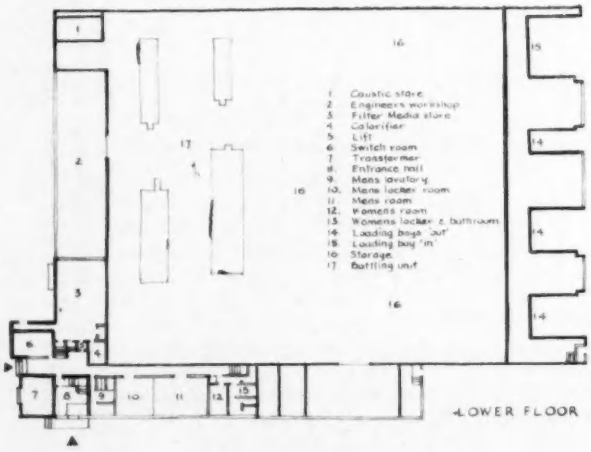
Bottling Factory, Tadcaster

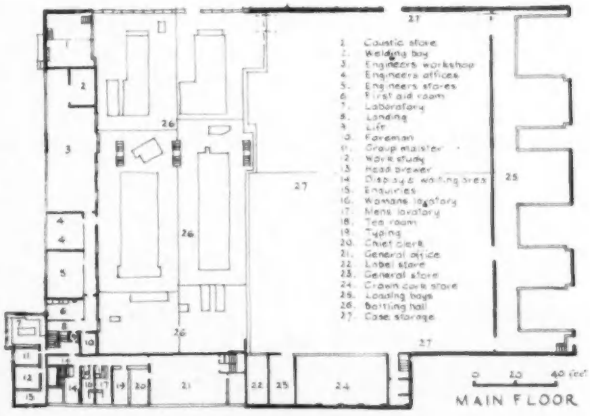
For Hammonds United Breweries Ltd.

LLEWELLYN SMITH & WATERS, architects
C.A.S. (INDUSTRIAL DEVELOPMENTS) LTD., consultants
ANDREWS, KENT & STONE, structural engineers

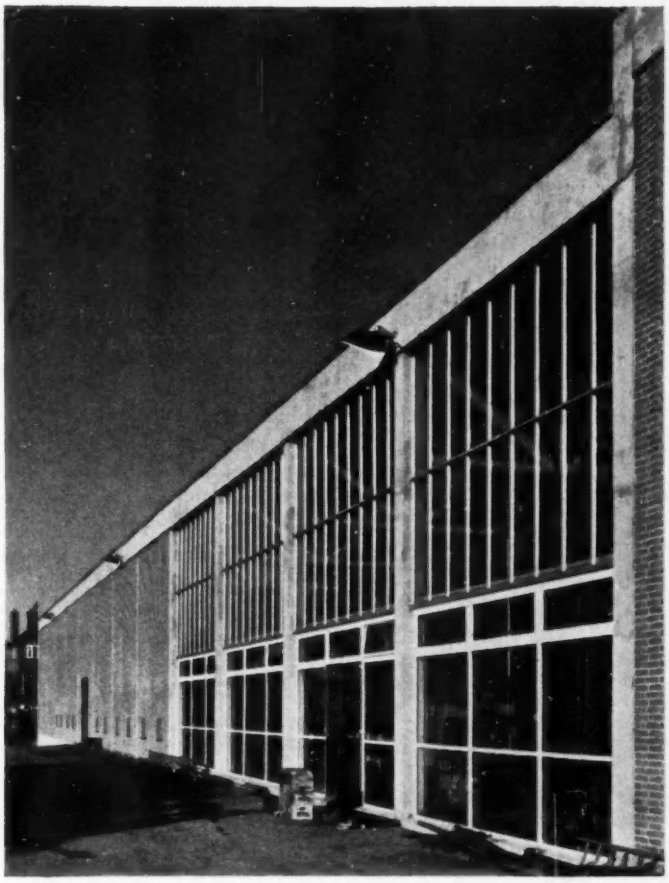


Tubular steel trusses spanning the bottling store

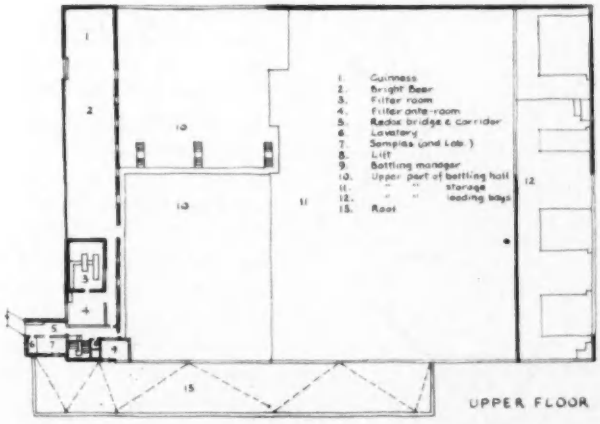




DONALD SMITH, SEYMOUR & ROOLEY, mechanical consultants
C.A.S. (CONTRACTORS) LTD., general contractors



General exterior



THIS NEW BOTTLING STORE replaces three of the Company's existing stores, at Bradford, York and Rotherham, and increases their capacity by 20 per cent. The Tadcaster store will bring about a considerable reduction in distribution and production costs. Instead of three different fleets of lorries conveying supplies from three depots, there is now only one, with the addition of mechanical handling and despatch to ensure the quickest possible turnround of bottles and crates. The store is adjacent to the existing Tower Brewery and linked by a bridge connection to carry beer lines and to provide a direct access way for staff.

An important feature of the bottling store is that space for two bottling lines has been allowed. The first one, which is now in operation has a capacity of 1,200 dozen bottles an hour—more than 110,000 bottles of beer in a normal working day. The second bottling line will be installed when the expansion in trade demands it. This second line will deal with 2,000 dozen bottles an hour, making a total for the whole store of well over a quarter of a million bottles a day. Conveyors have been kept to a minimum and advantage is taken of the almost clear span building by extensive use of fork lift and pallet trucks for crate handling and vehicle loading.

Tubular steel trusses are used in the construction of the store, in conjunction with sectional steel stanchions. The main purposes of tubular steel was to obtain the cleanliness of dust-free surfaces. Research work for the trusses was undertaken by Tubewrights (a subsidiary of Stewarts and Lloyds), T. C. Jones, and Andrews, Kent & Stone, consulting engineers to the C.A.S. group. The roof is lined with 1 in. cork insulation to facilitate temperature control.

Sub-contractors & Suppliers:

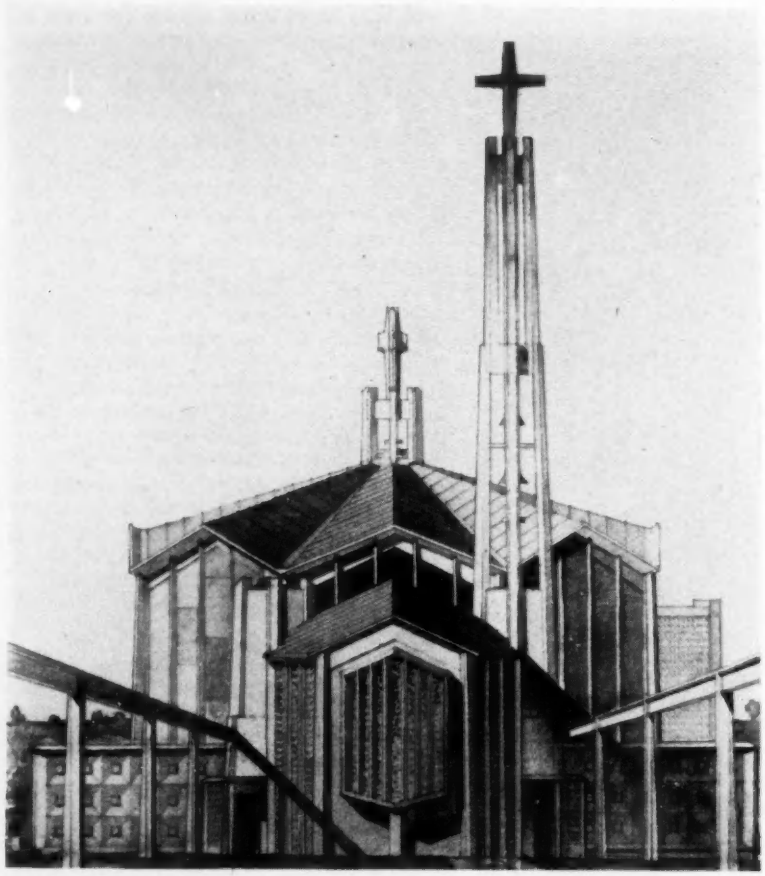
Stainless steel beer lines: George Adlam & Son Ltd.; *pasteurisers:* S. Briggs & Co. Ltd.; *beer tanks:* T. & C. Clark & Co. Ltd.; *filter room equipment:* H. Erben Ltd.; *washer & crate conveyors:* R. W. Webster Ltd.; *gantry & walkways:* Bettles & Sons Ltd.; *gates:* Bolton Gates & Co. Ltd.; *roofing:* Wm. Briggs & Sons Ltd.; *plastering:* E. E. Cheeseman & Sons Ltd.; *ventilators:* Colt Ventilation Ltd.; *protective paint:* Corrosion Proof Products Ltd.; *concrete floors:* Diespeker & Co. Ltd.; *general contracting work:* Robert M. Douglas (Contractors) Ltd.; *lifts:* Evans Lifts Ltd.; *brine mains & insulation:* J. & E. Hall; *heating & ventilating:* Matthew Hall & Co. Ltd.; *steel:* T. C. Jones Ltd.; *glazing:* Mellowes & Co. Ltd.; *textured paint & floor finishes:* Prodorite Ltd.; *wall cladding:* Robertson Thaine Ltd.; *floor tiles:* Semtex Ltd.; *painting:* G. & C. Whittle Ltd.

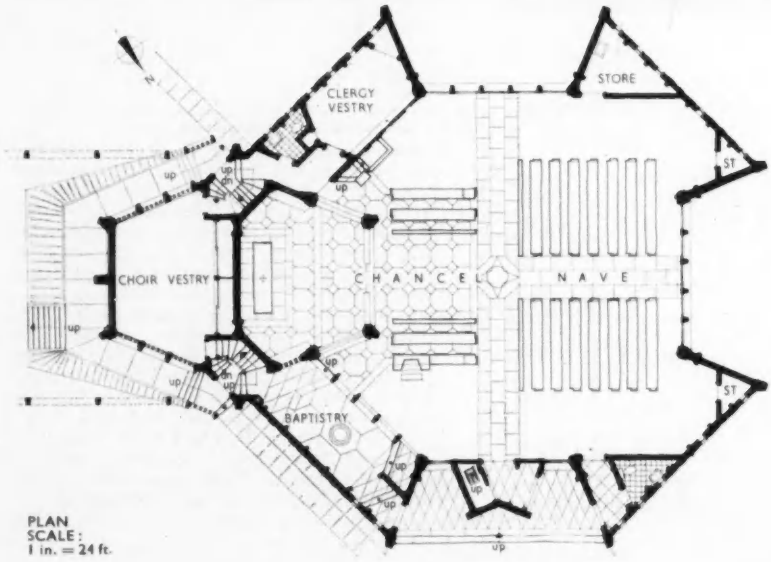
Proposed Anglican Church, Bristol

BURROUGH & HANNAM, architects

BERNARD & SON, quantity surveyors

BEECHAM BUILDINGS LTD., general contractors





PLAN
SCALE:
1 in. = 24 ft.

THE CHURCH is to be built at Locklease, Bristol, below the crest of a steep hill and a lofty tower was required so that it could be visually located. Seating for a maximum congregation of 300 is planned, and the design is capable of modification internally to meet future trends in liturgical practice. The plan is octagonal and the high altar against the east wall could easily be brought forward to the chancel step without major alterations.

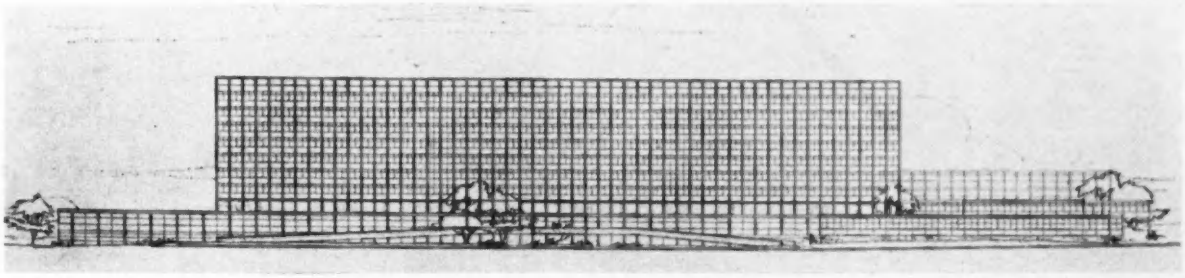
The Lady Chapel is raised above the nave to the east of the high altar, with a choir vestry below which will be used as a meeting room during the week. The link between these rooms and the main church is by spiral staircases to the north and south which are situated in turrets. One of these turrets is carried up to form an open tower.

The baptistry is placed in an annexe to the north-east, and the priest's vestry is placed on the south-east side. Similar annexes will be provided to the north-west and south-west as extensions to the nave.

The structure is of a specially designed reinforced concrete truss produced by the general contractors. Four of these trusses intersect diagonally to carry a ring beam which in turn carries a turret and cross in the centre of the church. Two similar trusses intersect to carry the roof over the chancel and Lady Chapel. Roofing is to be super-purity aluminium on wood wool slabs supported by moulded reinforced concrete purlins. Infilling between trusses in the main octagon is concrete slab lined internally with thermalite. The south and west faces have double glazing units and the east face is a glazed screen between the Lady Chapel and church.

Heating is to be off-peak electric heating, under floor in the Lady Chapel and under pew, with the addition of certain infra-red overhead units, for the rest of the church.

Competition Result: *University Hospital of Wales*



Winning design, south-east elevation; S. W. MILBURN & PTRS., WITH M. HARDING AND J. SURTEES, ARCHITECTS

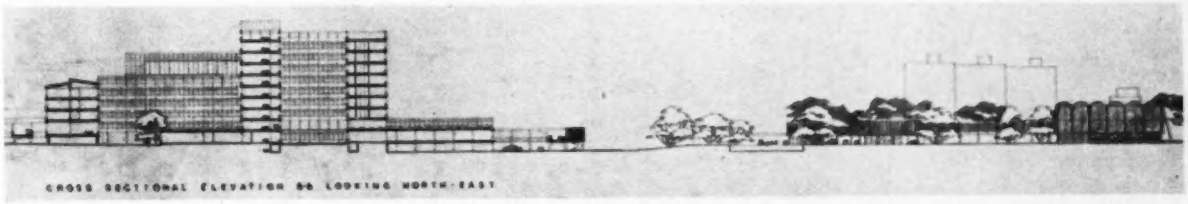
THE RESULT of the £10,000 architectural competition for the design of a Medical Teaching Centre for Wales, to be built on a 53 acre site at the Heath, Cardiff, is announced this week. First Premium (£5,000) to S. W. Milburn & Partners, of Sunderland, in association with M. Harding, DipArch, ARIBA, and J. Surtees, ARIBA, architects. Second Premium (£3,000) awarded to Charles B. Pearson & Son. Third Premium (£2,000) awarded to Farms & Partners.

The one-stage competition, launched just over a year ago, was promoted jointly by the Board of Governors of the United Cardiff Hospitals and the Council of the Welsh National School of Medicine, and entries were received from 40 competitors. The Assessors of the competition were Sir Percy Thomas, PPRIBA (Chairman); F. R. S. Yorke, FRIBA; J. H. Forshaw, CB, MC, FRIBA, Provost A. Trevor Jones, MD; and Dr. A. R. Culley, CBE.

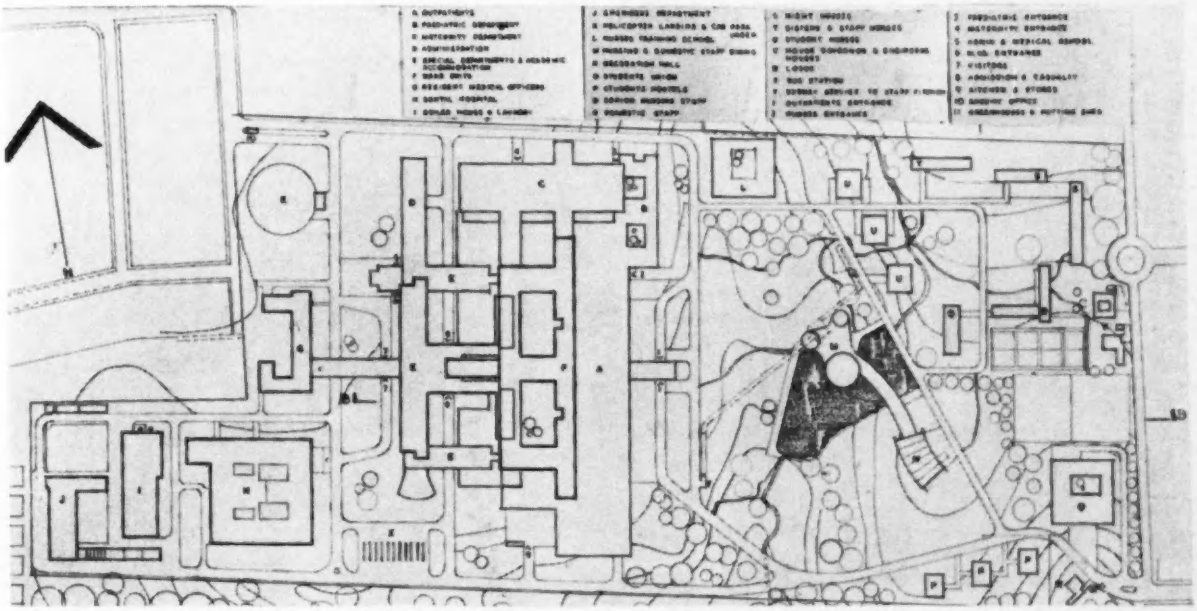
Extracts from Assessors' Report

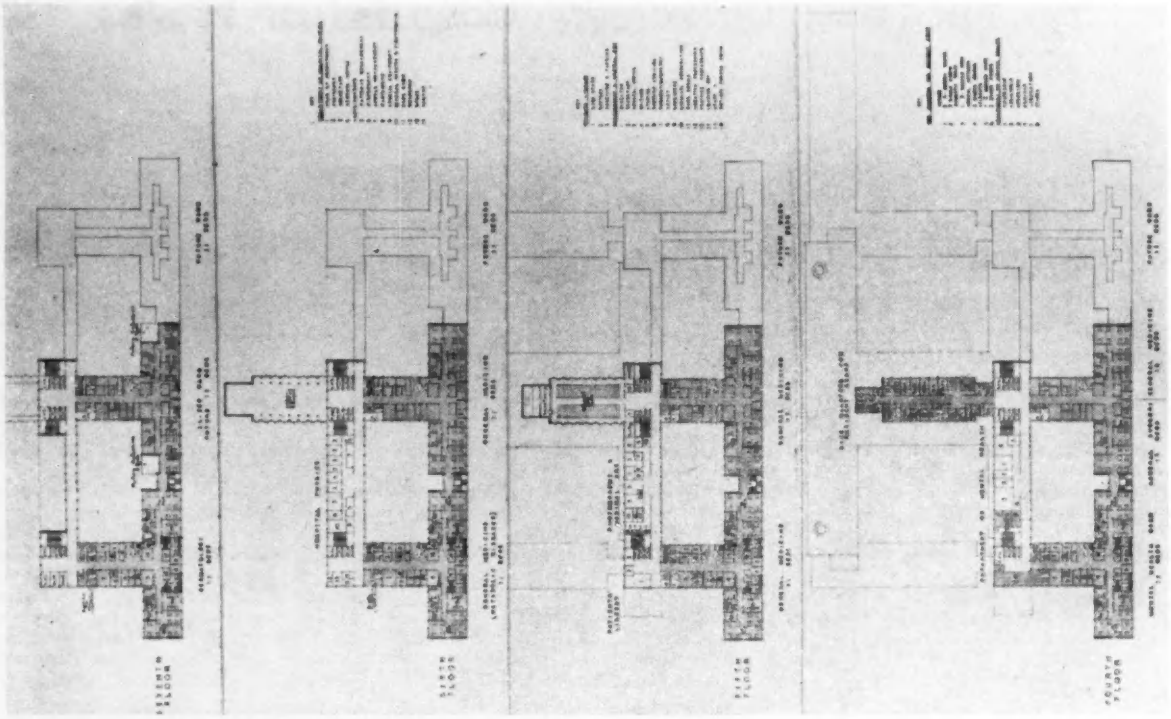
DESIGN NO. 27 [S. W. MILBURN & PARTNERS, M. HARDING AND J. SURTEES]. We are much impressed with spacious layout of this scheme and we believe the author has a fine appreciation of the magnificent qualities of the site, especially in the intelligent use of the contours. Planning of the main hospital building is compact, combined with a dignity and simplicity which harmonises well with the open freedom of the park-like setting.

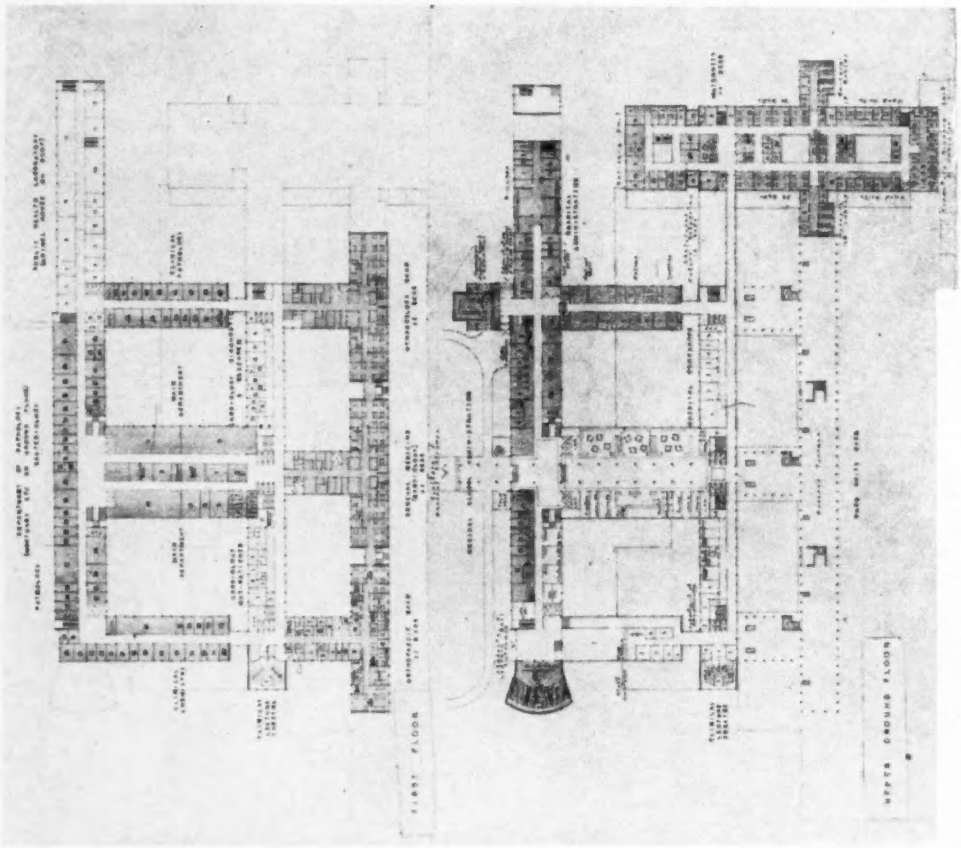
The general relationship of the various departments is well conceived, and the much desired integration of medical school and hospital is imaginatively achieved with seemingly effortless ease. The specialised departments and the wards conform to modern ideas with ample flexibility, and the provision for future extensions preserves the essential relationships. We have carefully checked the cube figures and the prices, and we consider that the work could be carried



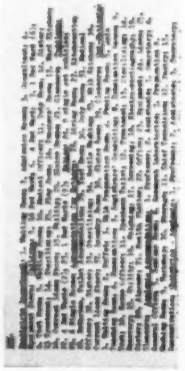
Winning design, site section and block plan

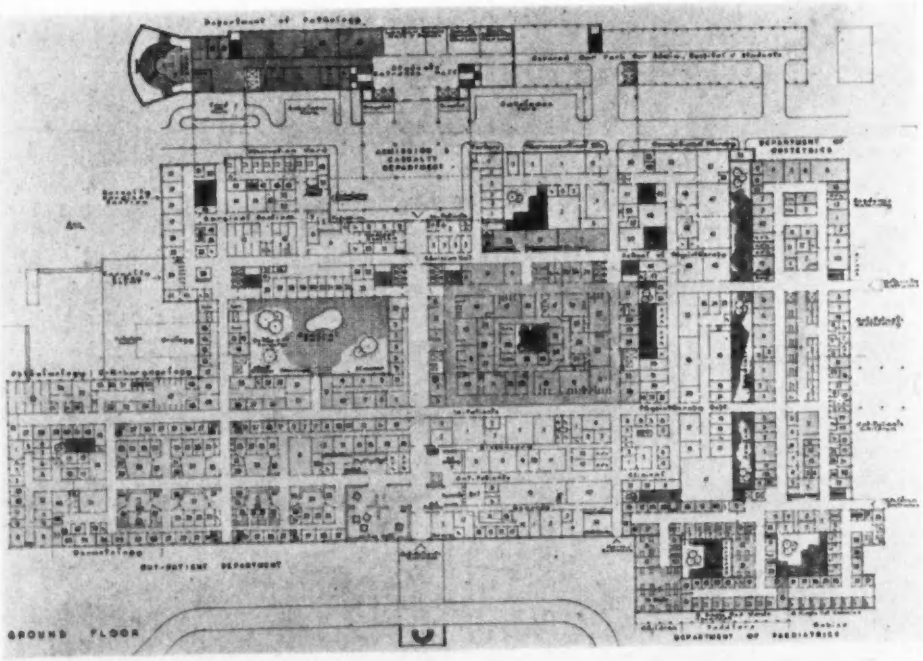




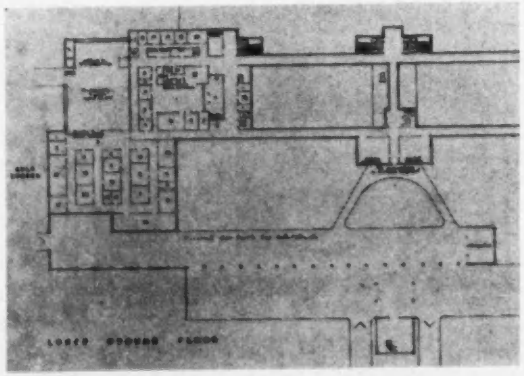


KEY TO GROUND FLOOR WINNING DESIGN

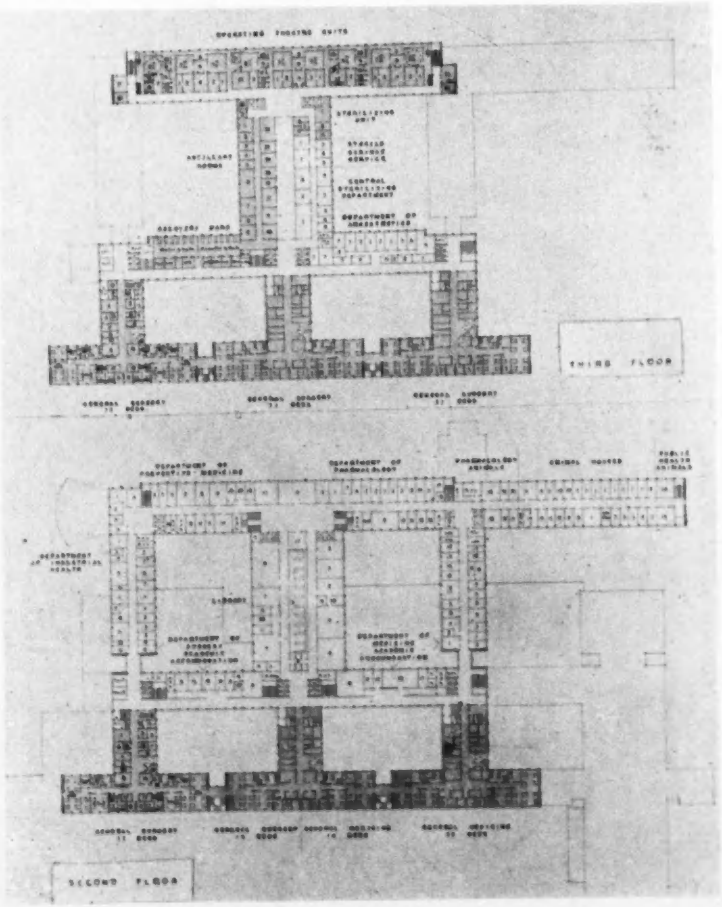




KEY TO GROUND FLOOR



KEY TO LOWER GROUND FLOOR

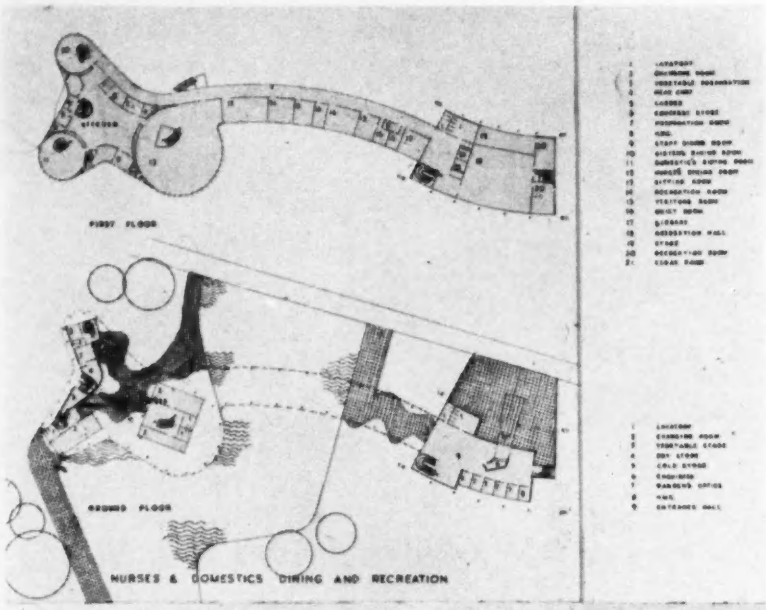


Plans of Winning Design

University Hospital of Wales

University Hospital of Wales

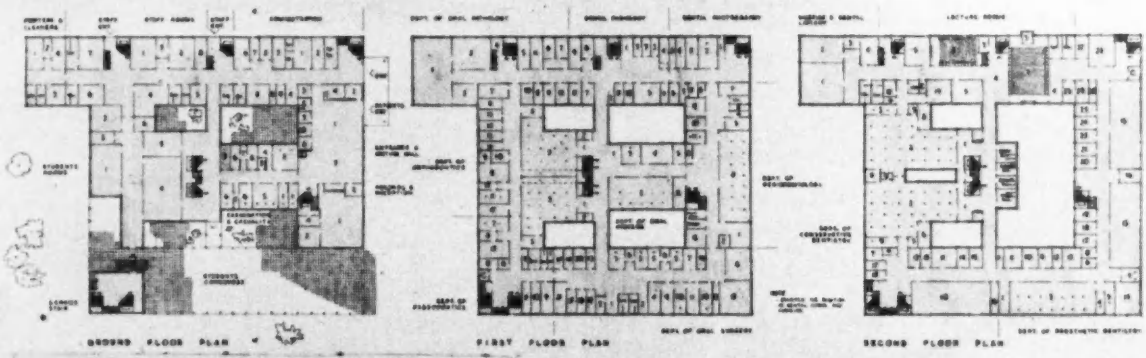
Winning Design, Details of Ancillary Buildings



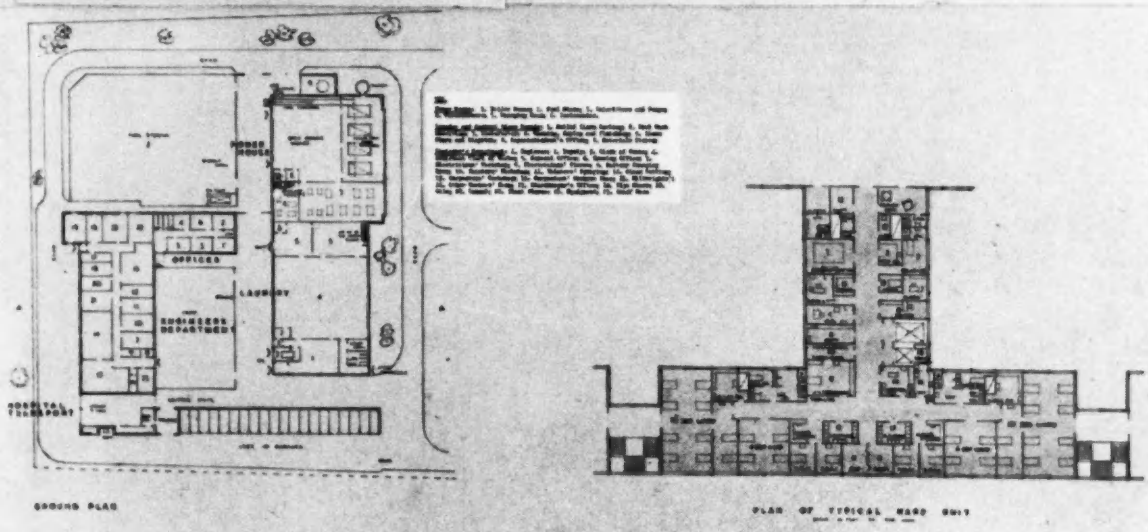
out within the terms of the conditions of the competition for £7,996,000.

DESIGN NO. 29 [CHARLES B. PEARSON & SON]. This design also makes good use of the site. We think, however, that the external communications links could be improved. The hospital building forms a simple and compact plan, and the integration of the medical school departments with the hospital is generally excellent. The dental hospital is conveniently placed and the link-up with the medical school is satisfactory. The detailed planning of the various specialised and clinical departments is well thought out, but the integration of school and hospital is so arranged as to infringe slightly on working conditions.

DESIGN NO. 25 [FARMS & PARTNERS]. In some ways we do not consider that this design makes the best use of the site, but it is an interesting alternative arrangement, and the links and communications across the site are good. The planning of the main hospital building, though efficient, is not so direct as in others.



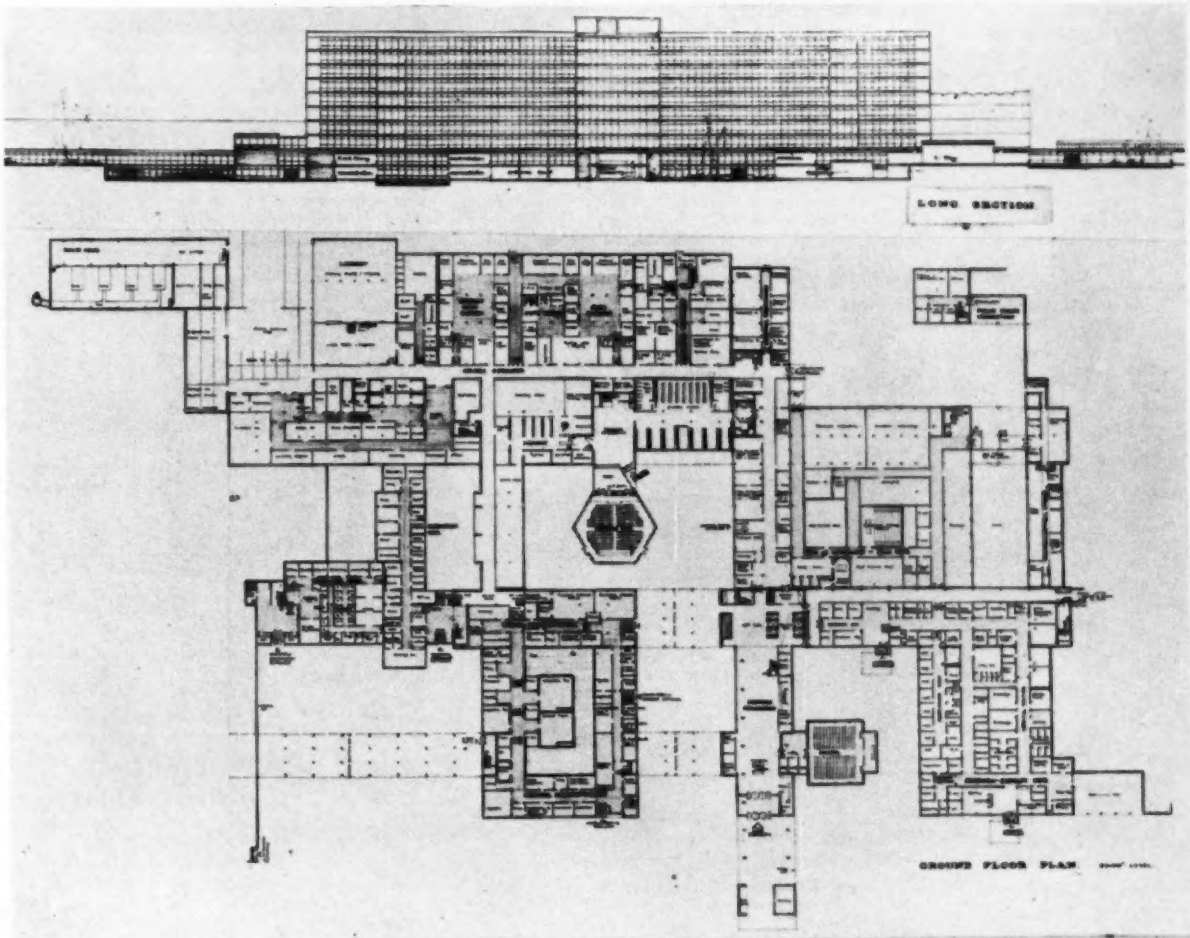
DENTAL SCHOOL AND DENTAL HOSPITAL

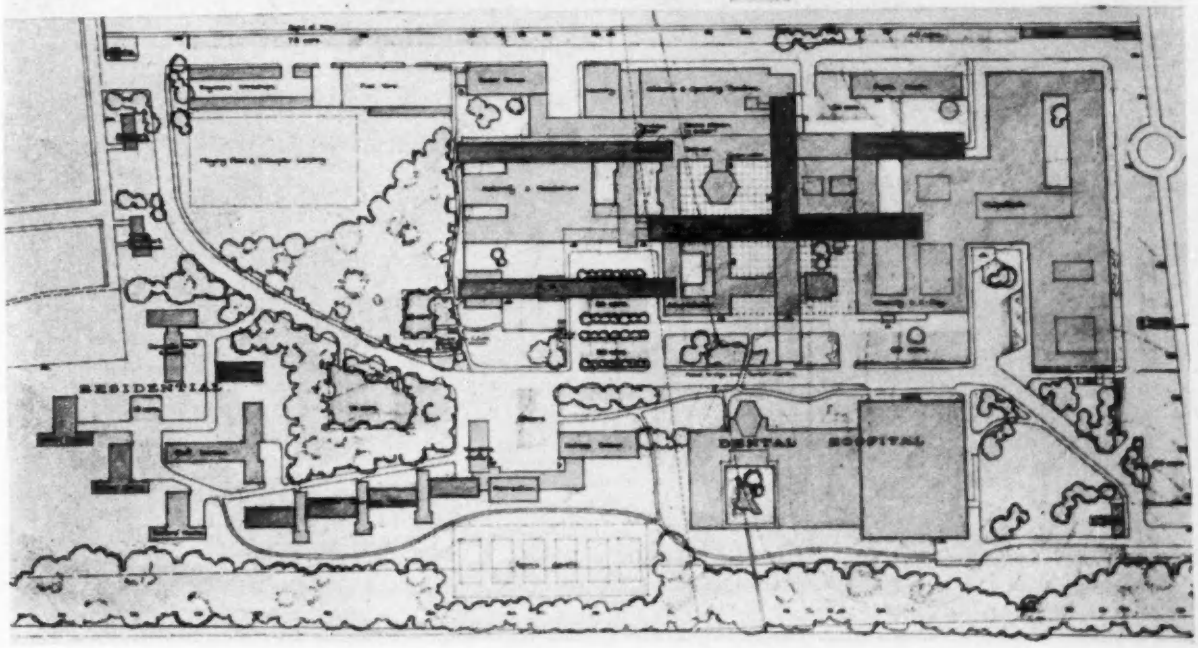


POWER HOUSE, LAUNDRY, ENGINEERS DEPARTMENT, TRANSPORT & TYPICAL WARD UNIT

Design Placed Second

SUBMITTED BY CHARLES B. PEARSON & SON





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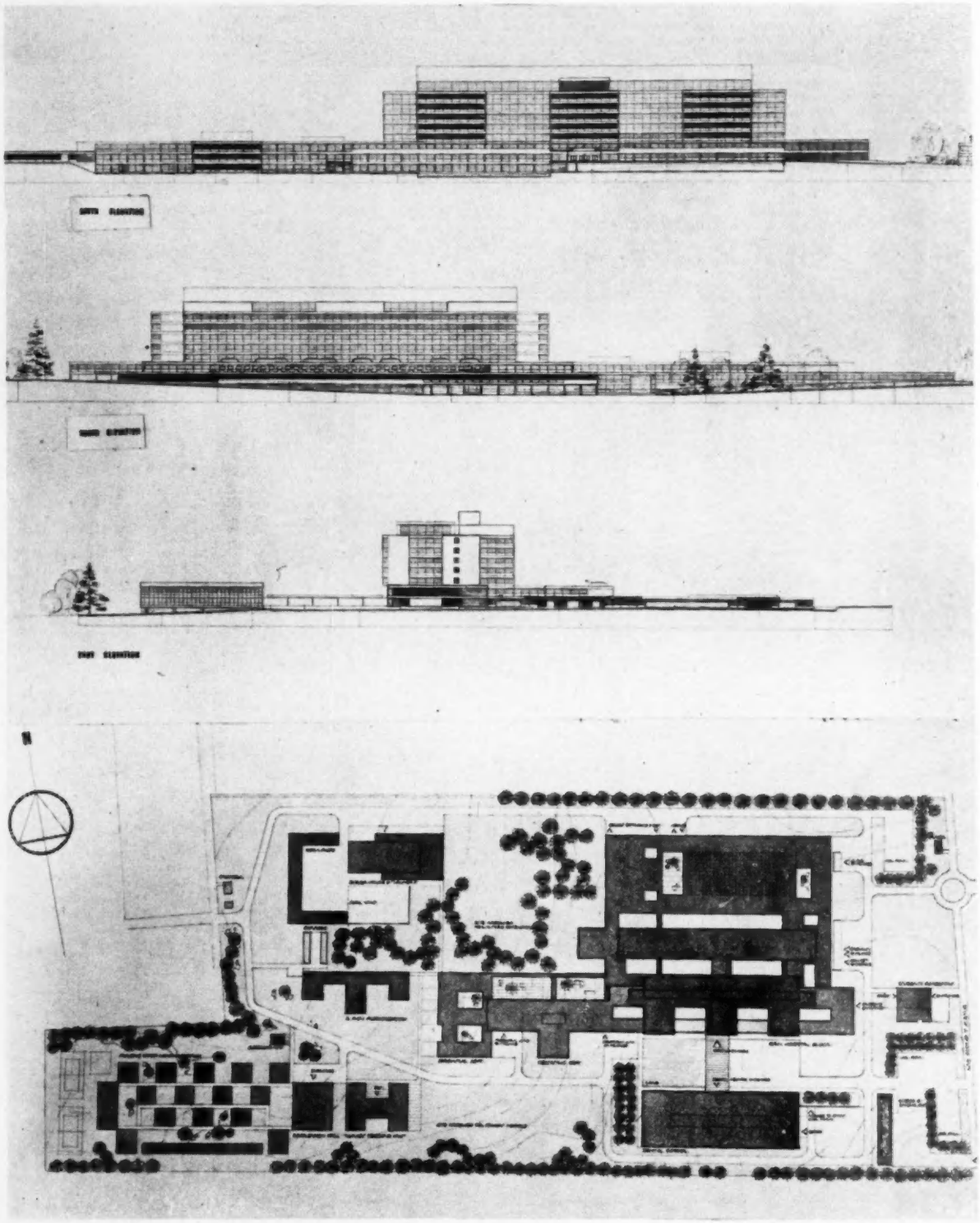

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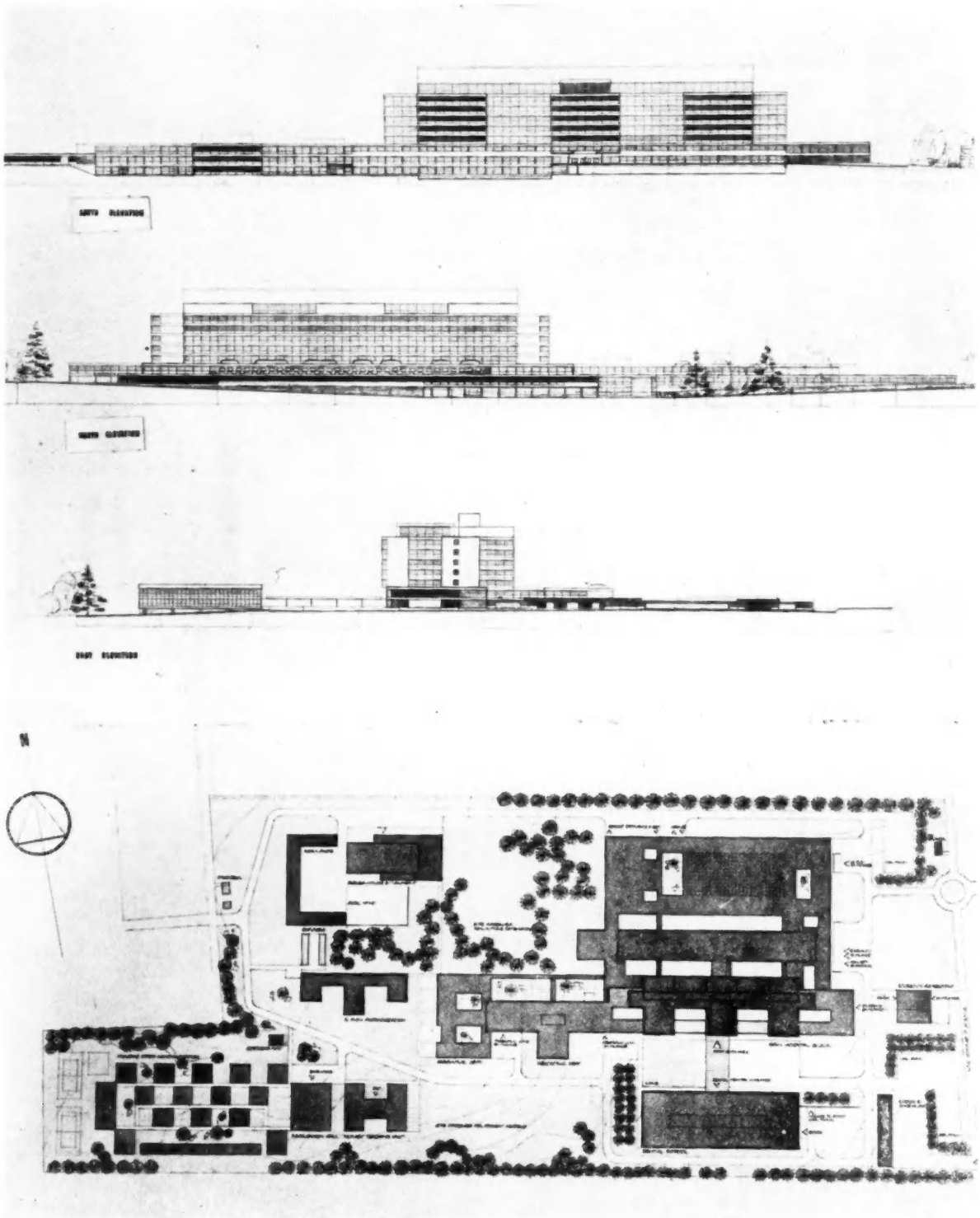

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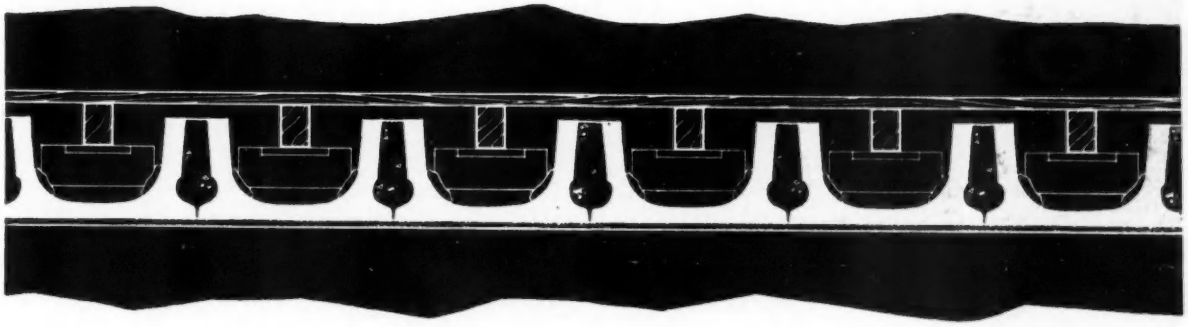

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MESSRS. L. G. MOUCHEL & PARTNERS, consulting civil engineers, after some sixty years at 38 Victoria-street, SW1, are moving during the middle of June to offices at Southbank House, Black Prince-road, Albert Embankment, London, SE11. Their new telephone number will be Reliance 7691.

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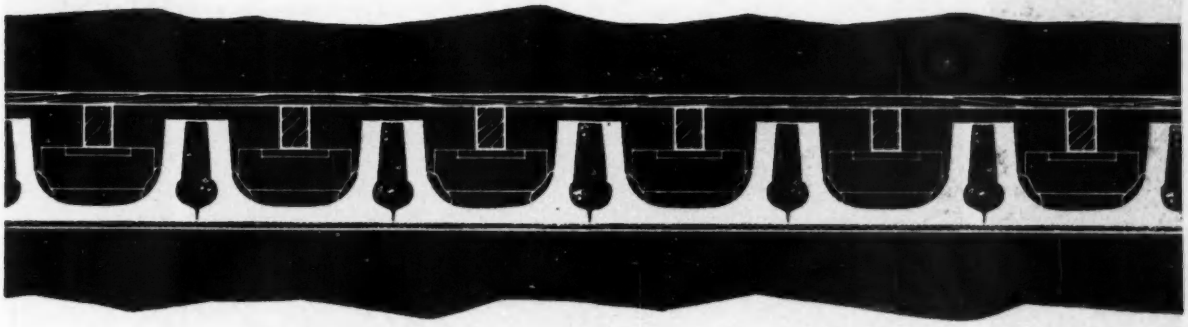

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The Monico Site Inquiry

The Minister Decides Against the Developers

In a letter to the developers' solicitors, dated May 19, Dame Evelyn Sharp, Permanent Secretary, the Ministry of Housing and Local Government, conveyed the Minister's decision on the application to develop the Monico site in Piccadilly Circus. He has decided to refuse permission for the development as proposed, but suggests that it may be desirable for the developers to consult the Council afresh on this application and 'hopes that it may be possible to enable a building to go ahead on this site without further prolonged lapse of time.' The Ministry Inspector in charge of the inquiry was Mr. C. D. Buchanan, BSc. The text of the letter follows:

TOWN AND COUNTRY PLANNING ACT, 1947
—SECTION 15
THE MONICO SITE, PICCADILLY CIRCUS,
WESTMINSTER

I AM DIRECTED by the Minister of Housing and Local Government to refer to the application dated December 23, 1958, made to the London County Council on behalf of Island (Piccadilly) Development Limited, for permission to develop a site in the City of Westminster bounded by Piccadilly Circus, Shaftesbury-avenue, Denman-street, Sherwood-street and Glasshouse-street, by the erection thereon of a new building to be used for shops, offices, restaurants and banqueting rooms, showrooms, exhibition facilities and ancillary uses; and to make certain alterations to Moon's Garage, Denman-street, and to Nos. 1 and 2 Ham-yard, and Nos. 55 and 56 Great Windmill-street, Westminster, in accordance with the drawings submitted therewith.

The Minister issued a direction on November 25, 1959, to the London County Council to refer the application to him for decision, and arranged for one of his Inspectors, Mr. C. D. Buchanan, BSc, AMICE, ARIBA, MTPI, to hold a public local inquiry into the matter. He took this action because the publication of a picture of the proposed new building aroused disquiet; the Minister recognised that the public, not only in London but throughout the country and indeed the Commonwealth, had a particularly close interest in the redevelopment of Piccadilly Circus, and it seemed to him that the circumstances were such that all the issues involved could be sufficiently clarified and ventilated only at a public inquiry. The inquiry was opened on December 16, 1959, and concluded on January 18, 1960.

The Inspector, a copy of whose report is enclosed, reached the following conclusions:

(a) He thought that the design of the proposed building had not attained the standard which should be expected on this site. It was his view that there was a fundamental weakness in the lack of any real relationship between the podium and the tower; and that the design failed to provide a sense of enclosure on the north side of the Circus. He thought that the awkward shape of the site presented a considerable problem. He agreed with those who had suggested, at the inquiry, a lengthening of the straight frontage, but referred to possible highway and other difficulties. He considered that the main advertising panel, rising to a great height over the kerb line, would hang over the Circus in a domineering manner, and was not convinced that such a substantial increase in building scale would be justified by the proportions of the new Circus. He thought that other ways of solving the design problem should be explored, including the taking-in of more land to provide a longer site frontage, and re-aligning Denman-st. and Shaftesbury-avenue.

(b) He thought it a pity that so substantial a project could not offer a more positive and immediate contribution to pedestrian safety and amenity, particularly as the building was likely to make the Circus a busier place than ever. The pavement width, which was about 12 ft. along Shaftesbury-avenue and only about 7 ft. along Glasshouse-street, seemed to him inadequate.

'Evasion of Parking Standards'

(c) It was his view that the proposal to reserve for parking purposes in connection with the new building the top two floors of Moon's Garage was in some measure an evasion of the purpose of the Council's parking standards, in that it would not produce any additional purpose-designed parking space in the area, and would tend to be used for long-period parking.

(d) He accepted the applicants' contention that in so far as illuminated advertisements were to be fastened to the walls of the building, it was desirable to have properly-designed sites for them clear of windows. He was disposed to think, however, that the panels proposed were too high and too large, with the risk that they would dominate the Circus; and he agreed with those who contended that the distant views of the upper parts of the panels would be unwelcome.

(e) He thought that there should be no difficulty in accepting the principle that there should be a comprehensive plan for the development of the Circus. In his view, such a plan should go further than the Council's present ideas, and in particular should provide a radical solution for problems of vehicular and pedestrian traffic. He believed that the present proposals would prejudice any such plan.

(f) So many questions of taste and policy were involved that the Inspector considered it inadvisable to tender a formal recommendation, but he made it clear that it was his view that the present project and the planning proposals with which it was associated did not make the best of the opportunity which was now unfolding for Piccadilly Circus.

The Minister agrees with his Inspector that the appearance of the building would fall below the high standard which public opinion is entitled to expect on this important site; that the big advertising panels would be too dominant in the Circus itself and too visible over a distance; that the car parking proposals are not satisfactory in that they would make no contribution to the amount of planned car parking space in the area, although the building would increase the need for it; that the design would fail to give a sense of enclosure to the future Circus on its north side; and that it might well prejudice the best solution of the problems of vehicular and pedestrian circulation at this spot.

For these reasons, the Minister has decided to refuse permission for the development proposed in the application dated December 23, 1958.

As, however, the scheme is so important and has been so widely discussed, the Minister accepts the responsibility to set out his own approach to the difficult planning problems involved.

First of all, as regards this particular site, he thinks that a building with a straight frontage, as long as the site permits, is much to be preferred to a building with a convex frontage as proposed by the applicants. From preliminary studies he has made in consultation with the Minister of Transport, he believes that such a building could be erected without prejudice to the current proposals for highway improvement. It seems to him also that a building of mainly horizontal emphasis would provide a desirable sense of enclosure on this side of the Circus; and again, from preliminary studies he believes that such a building is possible without sacrificing planning standards or depriving the developer of his normal expectations as to the bulk of building to be allowed. He would not, however, rule out the addition of a tower on the back portion of the site, if it were part of a satisfactory composition. The advertising panels should, in his view, be subservient to the design of the building as a whole, instead of, as now, appearing to dominate all other design considerations. He accepts that such panels should not cover windows. He recognises that considerable decrease in the total area of advertising space may be involved in this approach, as compared with that envisaged in the proposal which was the subject of the inquiry.

But the Minister has also tried to make an assessment of the problems relating to the redevelopment of Piccadilly Circus as a whole, since it seemed to him that a decision on the application before him could not be taken in isolation from these problems. The inquiry has shown a consensus of view that for a place of this

importance there should be a comprehensive plan to which developers could be asked to conform. He agrees with this, and he intends to arrange for his officers to discuss with the Council forthwith the possibilities of preparing a plan on these lines. As he sees it, while such a plan could not lay down rigid requirements in matters of design and appearance, it could give some indication to developers of what was likely to be acceptable in these respects, and it would in addition concern itself with the traffic problem and the need to reconcile the function of the Circus as a traffic intersection with its function as a place thronged by pedestrians. Much was said at the inquiry about elevated pedestrian footways. The Minister thinks that more study is needed before any firm view can be taken on the practicability of thus separating vehicular and pedestrian traffic in the Circus, and that such study should proceed as a matter of urgency.

It is important that any building put up on the Monico site in the meantime should not prejudice any comprehensive plan which may be devised. But the Minister also recognises that development of this particular site has already been greatly delayed, and hopes that it may be possible to enable a building to go ahead on this site without further prolonged lapse of time. As explained earlier, his own preliminary view is that a building of horizontal emphasis, with an extended straight frontage could go forward on this site without prejudicing future traffic requirements, but he suggests that it will now be desirable for the developers to consult the Council afresh in the light of his decision on this application and his comments on the need for a comprehensive plan for the Circus. Finally, he is clear that any new building on this important site, if it is to be acceptable, must not only meet the technical requirements of the site and the Circus but must be aesthetically pleasing also.

The Inspector's Report

Some Extracts

THE REPORT ON THE INQUIRY, made to the Minister, Mr. Brooke, by Mr. C. D. Buchanan, BSc, AMICE, ARIBA, MTPI, is dated March 8. It contains first a short description of the proposal followed by a brief summary of the main arguments and a description of the site. Then set out are the representations of the parties and interested persons; his own comments and conclusion follow. Two appendices list appearances at the inquiry and documents, plans and photographs handed in.

The proposal concerned the site bounded by Piccadilly Circus, Shaftesbury-avenue, Dean-street and Glasshouse-street, being in part the site of the old Monico restaurant. Permission was sought for a building covering the whole site up to first-floor level, with a tower rising an additional 12 storeys. There would be shops on the lower ground, ground and first floors, restaurant on the second floor, exhibition halls on the third floor and the rest would be offices. There would be panels for illuminated advertisements on the east, south and west sides of the tower rising approximately to its full height [172 ft.].

Discussions Since Before 1955

The case for the applicants (Island (Piccadilly) Development Ltd. which is wholly owned by City Centre Properties, Ltd. and the Legal & General Assurance Society) for whom Messrs. Cotton, Ballard & Blow had acted as architects throughout, was that discussions with the LCC had been going on for many years, and the first formal application for outline consent in respect of part of the island site was submitted in November, 1955. No decision was given on this but discussions continued, with the Council pressing for increased parking space and for the applicants to undertake further acquisition of property. In March, 1957, the LCC granted outline consent for as much of the island site as was then under the applicants' control. . . . At the same time the Council announced its intention to prepare a comprehensive plan for the future development of the Circus, and advised the applicants to maintain close contact with the officers. In July, 1957, the applicants acquired Moons Garage to the north of the site where there were two upper floors capable of being brought into parking use. They also acquired other properties virtually completing their ownership of the whole island site. . . .

Towards the end of 1957 a detailed plan was put in for a long rectangular building on the site and was rejected by the Council. In March, 1958, Mr. Frank Booth, FRIBA, a partner in the firm of Poulson & Booth, of London, was appointed as design consultant for the elevations of the building. There followed a period of close consultation with the Council's officers which culminated in the submission of a fresh application in December, 1958. About the same time the Council recommended the appointment of a specialist consultant for the illuminated signs, and as a result Captain Clifford Higgins was retained in January, 1959.

In February, 1959, the scheme was submitted to the Royal Fine Art Commission who 'recorded no objection to a building of this general massing and volume in this position.' The Commission criticised the idea of specially designed panels for advertisements preferring that 'the whole building be treated as a back-ground for a much freer kind of advertising,' and they suggested a lowering of the first-floor fascia to bring the elevations more into scale with surrounding buildings. These were the only criticisms.

Two 'Informative Letters'

On March 16, 1959, an 'informative letter' indicated that the Council would give favourable consideration to the application subject to certain conditions. . . . Further consultations followed and revised plans were submitted in May, 1959. . . . The plans paid heed to the RFAC's point about the fascia level. On July 10, 1959, a further 'informative letter' from the Council indicated that favourable consideration would be given to the revised plans subject to certain conditions. . . .

Major Changes Summarised

Further revisions were made in December, 1959, just prior to the Inquiry. The following were the major changes made since the application of December, 1958:

(i) The podium had been lowered some five feet to meet the RFAC's suggestion for uniformity of level with the County Fire Office.

(ii) A wall (intended for advertisements) to the west of the tower above the restaurant had been omitted in order to secure a balance between the 'shoulders' either side of the tower.

(iii) The top floor (12th) of the tower now had windows to the south, thus giving a lighter effect.

(iv) The general fenestration plan had been altered to give a lighter, vertical effect.

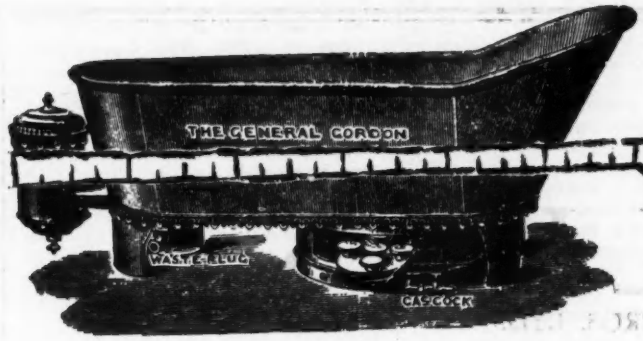
(v) The side advertisement panels were now of the same height.

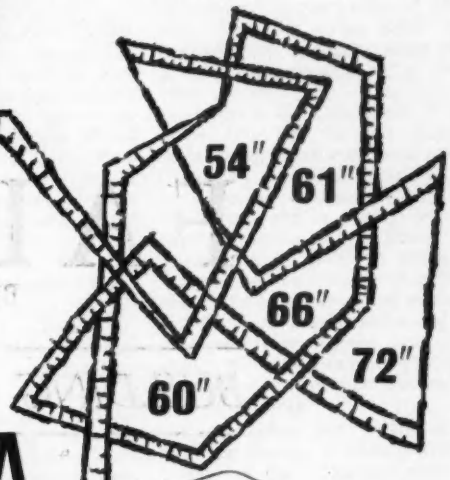
Case for the LCC

The Council's policy for the Circus was based on the County development plan approved in March, 1955. The Circus was within the 'central zone' which provided for flats, hotels, shops, offices, places of assembly and licensed premises. The programme map showed a road improvement in the second period of the plan, this was known as Stage 1 of the Piccadilly Circus road improvement and comprised the cutting off of the apex of the Monico site. The Written Statement made clear the Council's intention to maintain areas of special character, and to resist proposals likely to increase central congestion. A plot ratio of 5:1 had been defined. The Council had further defined its policy in a statement attached to the outline consent granted to the applicants on March 15, 1957. This statement referred to the Council's concern for securing a comprehensive plan and advised the applicants that officers had been instructed to prepare a tentative scheme which would in due course be discussed with developers. The tentative scheme was, of course, the Advisory Scheme featuring in the present Inquiry. . . .

It was considered that the traffic solution should provide more space for pedestrian circulation with as great a measure of segregation of pedestrians from vehicles as possible. . . . The general form of the buildings was based on the then known requirements of developers. The possibility of high buildings was not excluded, and in fact one building of 230 ft. was suggested for the Criterion site. On the Monico site a building of 130 ft. was proposed with a broadly horizontal emphasis. A hotel 160 ft. high was suggested for the Trocadero site.

On March 25, 1957 the LCC officers were authorised to use the advisory scheme as a basis for discussion with





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developers. There was first a meeting in April, however, of the Government Departments and other bodies to secure their reactions. In general the reaction was not encouraging, there was no outright opposition but many misgivings were expressed and the police in particular were concerned about the upper walkways. . . . It was not considered possible to proceed with pedestrian arrangements, in view of the opposition, and the matter had to be thought out again. . . .

Various earlier schemes by the applicants might be said to have terminated with the submission of sketch scheme 6 towards the end of 1957, this scheme being rejected for many reasons including excessive plot ratio and architectural appearance. Discussions followed with the applicants regarding the general design problem. Assuming, which the Council was bound to do, that the applicants were entitled to seek whole-site coverage up to the first floor, the problem was to dispose of the remaining two-fifths of the accommodation on this podium. Regard also had to be paid to the fact that the applicants did not favour departmental store use of the second and third floors which rendered impracticable the idea of a horizontal panel for advertisements because daylight would now be required from the main frontage. This being a difficult design problem there was nothing unusual in the Council's own staff tackling it to see the possibilities. . . . Eventually it was judged that a cruciform tower was the only practicable solution; it would provide ample advertising space in purpose-designed panels but would yet permit good interior daylighting from the flanks.

A sketch of this idea, with possible floor plans at the various levels, was given to the applicants on March 12, 1958. The applicants' architects, Cotton, Ballard & Blow, then worked upon it; they modified the strict cruciform shape of the tower mainly by producing a recessed northern elevation and from this resulted the formal submission of December, 1958.

Visit to the RFAC

On February 11, 1959, Mr. Hubert Bennett [Architect to the LCC] accompanied by Mr. Frank Booth for the applicants, met the technical committee of the Royal Fine Art Commission. Mr. Basil Spence, Mr. Lionel Brett and Mr. G. A. Jellicoe were the architects present on the committee. The plans of the building were discussed, and it was Mr. Bennett's suggestion, agreed to by the committee, that the podium fascia should be re-aligned to accord with the height of the string-course of the County Fire Office arches. The only point the committee had to raise concerned advertisements, Mr. Brett and Mr. Spence having some idea that the signs should be freely displayed all over the building.

The views of the committee were confirmed on behalf of the Commission in a letter of February 17. The point about the podium fascia was adopted as though it were the Commission's own point, and the point about advertisements was remade with a reference to Scandinavian practice. Very importantly also the Commission accepted the building for its general massing and volume, and this clearly amounted to a general approval of the architectural concept. . . .

The architectural quality of the building was a matter of taste. It was the Council's view, supported by their very experienced architect, that the building was entirely satisfactory. . . . The Council had no grievance against the Royal Fine Art Commission. . . . It just seemed that in writing the letter of December 15 the Commission were stampeded by the general atmosphere created prior to the Inquiry.

The Architects' and Developers' Case

The case for Messrs. Cotton, Ballard & Blow and City Centre Properties Ltd., was that no one could question the importance of this site, nor the Minister's action in calling the case in, but it was right to recall that the scheme had the approval of the statutory planning authority, that the project had been hammered out in consultations over many years at great expense, and that the activities of the developers were leading to a much more comprehensive development of the site than would have been possible otherwise.

The Inspector's Comments

In his comments, the Inspector writes that this is a case of the greatest interest involving almost every aspect of city centre redevelopment. . . . The matters to be discussed fall into three groups—the building design, advertisements and comprehensive development. . . . In the paragraphs that follow I refer to all those who opposed the application at the Inquiry as 'the objectors.' . . . I think the Royal Fine Art Commission can also be included amongst 'the objectors.' There was a suggestion for the applicants and the Council that the Commission's true view was that expressed in their letter of February, 1959. . . . I feel bound to accept that the December, 1959 letter represents the considered views of the Commission, but equally I agree with the applicants that much confusion would have been avoided if the Commission had been able to reach their main conclusions when they first saw the plans in February. For the applicants it was said that it was a good design, and the weighty testimony of Sir Howard Robertson was given in support. It was pointed out that when the design was first shown in the Press in March, 1959, though there was some criticism there was no general outcry. . . . When further sketches were published, however, following Mr. Cotton's Press conference in October, 1959 there was an outcry but, it was suggested, the only valid explanation for the change of front was that a campaign against the project had been whipped up. . . . I think the applicants must now greatly regret that they put out the perspective sketch which they did at Mr. Cotton's Press conference in October, 1959. This was the drawing showing the building with a crane on top and a large advertisement 'Snap Plom for Vigour' on the main front panel. Had this not been issued, it is a fair guess that the building would now be in course of erection. . . .

I think a great deal of the architectural difficulty arises from the shape of the site. . . . Even granted the possibility of building to the height of the County Fire Office, or a bit more, along the frontage, the triangular shape of the site is still unfavourable to a satisfactory effect of enclosure. For this reason I much favour the suggestions by Miss Jane Drew and Dr. Thomas Sharp for a lengthening of the straight frontage to the Circus by swinging Shaftesbury-avenue round so that it enters the Circus further to the east and in a more nearly north-south direction. . . . There was some questioning by objectors whether a high building is required or suitable at this point. I would not myself exclude a high building from playing some part in a composition for the Circus, but I share the objectors' doubts whether a baldly central position on a restricted site on the north side is suitable.

Summarising my comments on the building design, I think there is much weight in the objectors' view that the design, in the strictly architectural sense, is unsatisfactory for this prominent site. There may yet be other basic solutions that would yield a better result, but the fact remains that even after all the effort by the applicants to acquire a sizeable area for redevelopment, the site is awkward and restricted. The project would attract greater numbers of people to the Circus but without offering any immediate and substantial improvement in amenities for pedestrians, but this again is partly a reflection of the difficulties of the site. The car-parking arrangements are not wholly satisfactory and represent a measure of evasion of the purpose of the Council's parking standards.

The Advertisements

The advertising arrangements are of course quite inseparable from the general design of the building. . . I have not seen Times Square [New York] but I agree with Mr. Osbert Lancaster in being fearful of the idea of large signs without subtlety dominating Piccadilly Circus, and still more fearful of the final result if other advertising towers were permitted. The importance of the present case is that it is the first time full-scale tower advertising has been proposed in London. . . .

There was much discussion during the Inquiry about the way the legal powers of advertising control would apply to the large panels. Whether for instance Westminster City Council would license a whole panel or give separate approval for individual designs. . . . If approval was given to the building design as submitted with its special panels for advertisements, it would in commonsense imply approval of the use of the whole of the panel area for advertisements, and it would be of no avail for anyone to come along later and seek to restrict, for example, the height to which advertisements should extend.

Comprehensive Development

The present is a critical time for the Circus. There is little of any architectural value there at present, redevelopment of the greater part is more or less imminent, and it seems open to us to make anything we desire of the place. . . . I would hesi-

tate to offer advice on an issue of this kind were it not for one factor which seems to render it almost inevitable that the sights should be set high. I refer to the insistent problems of motor traffic which seem to be demanding radical new thinking on urban forms and arrangements. . . . I feel far from satisfied that the Council's comprehensive scheme in its present state of evolution, or even the original advisory scheme, shows a sufficiently fundamental grasp of the traffic problems. . . .

To summarise my comments on comprehensive development, I take it for granted that there should be a comprehensive plan but it should be a plan in which certain critical matters are firmly secured against all possibility of erosion during negotiations with developers. I cannot advise that either the LCC's advisory scheme, or their present modification of that scheme, are soundly based on matters of traffic, particularly in the all-important matter of pedestrian movement.

My own view is that more drastic treatment is necessary to deal with traffic, and in that case great scope is presented for novel and stimulating solutions. Although I think large-scale redevelopment would bring its own rewards in the long run, I would not attempt to minimise the great financial and organisational difficulties involved. While the present application for the Monico site conforms to the Council's present comprehensive plan, I do not consider there is any chance of its conforming to a more radical plan, indeed I am sure it would prejudice it.

Conclusion

So many questions of taste and policy are involved in this case that I have considered it inadvisable to tender a formal recommendation. My comments, however, will have made my own views clear on the architectural and planning matters, within my professional scope. I think I can sum these up by one question and answer. The question I have repeatedly asked myself is whether the present project, and the planning proposals with which it is associated, make the best of the opportunity which is now unfolding for Piccadilly Circus. I have not found it possible to give an affirmative answer.

Statement by Mr. Basil Spence, PRIBA

IN THE COURSE of a statement on the subject, MR. BASIL SPENCE, RA, PRIBA, said: 'The RIBA will certainly study the Minister's decision and the Inspector's report with the greatest care, because the acute difficulties that arose at Piccadilly Circus, and particularly the problem of reconciling its uses as a traffic intersection and a pedestrian concourse, are to be found in every town and city in Britain.

'I am very glad that the Minister has insisted on the need for a comprehensive plan for the redevelopment of Piccadilly Circus as a whole, though I would say that a comprehensive plan is needed for an area very much larger than the Circus itself. The piecemeal redevelopment of small sites will prove disastrous if it is allowed to continue. The Minister, and the Government, will now have to face up to the financial and legal difficulties that are deterring comprehensive redevelopment of such areas, and the RIBA is ready to give any assistance in its power for this purpose.'

The Week in Parliament

From Our Parliamentary Correspondent

The Roads Programme

THE MINISTER OF TRANSPORT, Mr. Ernest Marples, and his Parliamentary Secretary, Mr. John Hay, have been facing a weekly quiz at question time on the roads programme. During exchanges on May 18, MR. WEDGWOOD BENN, for the Opposition, contended that the difficulty was that there was no public national plan for road building. He pointed out that civil engineering contractors had complained only a few days previously that they had as many road-building machines idle as they had in use.

MR. MARPLES said that if Mr. Benn compared what was being done now in building and improving roads with what was done by the Labour Party he thought Mr. Benn would find 'an improvement.' This reply and another similar one by Mr. Hay annoyed Opposition MPs, who had been tackling him particularly about the classified roads programme. Local highway authorities have the responsibility of improving these and MR. HAY related how the authorities applied to the Ministry for grants towards the cost of major improvements. The large number of schemes in relation to the funds at their disposal made a priority system necessary whereby schemes were selected for grant on the basis of need and urgency. This meant that schemes must often be deferred and both he and the Minister emphasised that outright refusal was rare.

MR. MARPLES declined to publish a White Paper setting out details of the Government's road building programme for the next five years. 'I think it would be undesirable to announce detailed plans a long way ahead,' he said.

Design of Traffic Signs

Fuller powers are to be provided under the Road Traffic and Roads Improvement Bill to enable the Minister of Transport to deal with temporary traffic signs in the London Traffic Area, and the committee of MPs who last week finished considering the details of the measure have approved the proposals.

MR. WEDGWOOD BENN said some expenditure in the direction of the standardisation of signs would not be out of place. In designing traffic signs there should be some co-ordination between the Minister and the Council of Industrial Design. The quality of traffic signs was appalling. The M.1 had the first successful traffic signs, being both readable and beautiful. Why not have beautiful signs in London? Let there be co-operation between the Minister and the Council of Industrial Design, architects and engineers and make London not only an easy but a pleasant place to pass through.

MR. JOHN HAY said they had to do much more about proper sign posting and they accepted the suggestion that there should be co-operation between the Ministry and the Council of Industrial Design on the design of signs. He had always been impressed with the French road signs.

Automatic Garages

MR. MAYHEW asked the Minister of Transport what encouragement he was giving to local authorities to construct automatic multi-storey garages.

MR. MARPLES.—'I am always ready to view sympathetically applications by local authorities for loan sanction and compulsory purchase orders for the purpose of providing off-street parking facilities. These may include automatic multi-storey garages where appropriate.'

Other Business

London Airport Terminal Buildings

MR. LANGFORD-HOLT asked the Minister of Aviation on May 2 why no air conditioning was incorporated in the central terminal building at London Airport.

MR. G. RIPPON, Parliamentary Secretary: 'The building is mechanically ventilated with six changes of air an hour and it was not considered that the high cost of full air-conditioning would be justified.'

Misuse of Planning Laws

SIR HERBERT BUTCHER asked the Minister of Housing and Local Government on May 3 if he was aware of the growing tendency of local authorities to use the planning laws to obtain valuable considerations in the shape either of the acquisition of land below its true value or the compulsory user of premises or part of premises for specified and often unremunerative purposes as a condition precedent of granting planning permission; and whether he would take steps to restrain such practices.

MR. BROOKE wrote: 'I am not aware that local authorities are misusing their planning powers in the way suggested. If Sir H. Butcher will send me particulars of any cases, I will investigate them.'

Fulham Hospital Rebuilding

MR. D. WALKER-SMITH, Minister of Health, said on May 9 when asked when the rebuilding of Fulham Hospital would begin, that planning was in progress but it was too early to be able to say when building work would begin. MR. MICHAEL STEWART said that according to his information the plans for the new building had not yet been put before the governors of the hospital. They had been concerned in

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Fulham over the fact that every time this subject was discussed the number of beds for the proposed hospital seemed to become smaller. They were anxious to know what was the plan before the number shrank any more.

THE MINISTER said that plans in the technical sense did not exist as yet as the schedules of accommodation had not yet been fixed. They could not have plans until they had the schedules of accommodation. 'I am convinced,' he added, 'that in hospital building the right thing is to get a clear definition of the schedules of accommodation and adhere to it. That is the only way to speed up the procedure of hospital building.'

Park Lane Improvement Scheme

Tackled about completing the Park Lane improvement scheme in less than 28 months, MR. JOHN HAY, Parliamentary Secretary, Ministry of Transport, indicated on May 10 that the programme for the scheme had been worked out very carefully by the LCC. Their plans had been prepared in consultation with his department, the Minister of Works, the Metropolitan Police, the contractor and other bodies concerned. Parts of the scheme would be opened to traffic as they were finished and he was satisfied that if traffic was to be kept moving while work was in progress 28 months was the best possible time that could be achieved for completing the scheme.

Asking the Minister to look at this again, MR. DRIBERG observed that presumably night working would be expensive. MR. HAY said he had looked closely into the plans. They were dealing with two of the busiest road junctions in the country. As St. George's Hospital was at Hyde Park corner they had been obliged to abandon work between 11 p.m. and 7 a.m. in the interests of patients.

Distribution of Industry

MR. JOHN RODGERS, Parliamentary Secretary, Board of Trade, said on May 10 that they were satisfied that the powers in respect of IDCs were adequate to carry out the Government policy of obtaining a proper balance and distribution of industry. The President of the Board of Trade did not think it necessary to make a further statement on policy.

MR. WILLIAM ROSS asked the Board of Trade to adopt a most positive control, as suggested by the Scottish TUC, and give greater priority to areas of greater need. MR. RODGERS explained that they divided the whole country roughly into three areas. In one area they tried to steer industry by means of IDCs and Government help. In another area they tried to prevent any industrial development taking place except in the most exceptional circumstances, and then there were the 'grey' areas where IDCs would normally be granted. Each case was considered on its merits.

Fylingdales Scheme and RFAC

Asked if the designs for the various buildings of the Fylingdales early warning station had been or would be submitted to the Royal Fine Art Commission and if he would tell the House the Commission's opinion of them, MR. GEORGE WARD, Secretary of State for Air, replied on May 11.—'The RFAC were sent an outline of the proposed development including a description of the technical buildings. Their comments did not include any observations on the buildings themselves. They were, of course, aware that we were discussing details with the Park Planning Committee, who are the local planning authority for the area, and the National Parks Commission. These bodies have already approved in principle our proposals for siting, layout, design and treatment of buildings.'

MR. DRIBERG asked if it was correct that the main structures would consist of three enormous balls. If these were as large as they were reported to be would not all the assurance about landscaping be superfluous? MR. WARD said the radar domes were rather large but they had agreed to paint them any colour which they were asked to paint them to blend in with the landscape. They were employing a landscape consultant to advise them on it.

Planning Decisions

SIR KEITH JOSEPH, Parliamentary Secretary, Ministry of Housing and Local Government, stated in a written answer on May 16.—'In the six months from October 1, 1959 to March 31, 1960, 3,255 appeals under section 16 of the Town and Country Planning Act, 1947, were decided. 2,346 were decided after a public local inquiry or hearing; of these 1,755 were dismissed and 591 allowed. 155 decisions were contrary to the recommendation of the Inspector. 909 were decided on the written representations of the parties; of these, 585 were dismissed and 324 were allowed. Separate figures are not available for cases decided after a hearing, as distinct from a public local inquiry, but very few appeals, if any, were dealt with during this period by way of a hearing.'

Acquisition of Farmland

MR. JOHN HARE, Minister of Agriculture, Fisheries and Food, stated in a written answer on May 16 that it was proposed when a suitable opportunity occurred to make provision in a Government Bill to put agricultural occupiers on the same footing as business occupiers under Section 13 of the Town and Country Planning Act, 1959. That would enable public authorities which acquired agricultural land for public services and served notice to quit on the tenants to pay allowances at their discretion towards the tenants' losses due to the interruption of their livelihood, in addition to the compensation for disturbance which they were required to pay under the Agricultural Holdings Act, 1948.

Redevelopment of Carlton Gardens

MR. KENNETH ROBINSON asked the Chancellor of the Exchequer, on May 17, whether the Crown Estate Commissioners had communicated to him their plans for the redevelopment of Carlton-gardens, SW1; and what was the nature of the proposals.

MR. HEATHCOAT AMORY.—'The Crown Estate Commissioners have informed me that they are considering a scheme for redevelopment on the sites of Nos. 5, 6 and 7 Carlton-gardens by the erection of a new building to contain offices and flats.'

There were cheers when MR. ROBINSON asked why was it that redevelopment in London always involved the demolition of their most attractive buildings. These buildings were part of Nash's great scheme much of which had already disappeared. Would the Chancellor try and use his influence with the Commissioners, who had shown themselves sensitive to public opinion as regards the Regent's Park Terrace, and get them to think again?

MR. AMORY replied that he agreed in general. But these buildings would not have been scheduled as of historic or architectural interest if they had not been Crown property. The drawings were being submitted to the Royal Fine Art Commission and after that to the LCC as planning authority and the Crown Estate trustees would not take any action until they had received reports from both these bodies.

Euston Station

MR. WYATT asked the Minister of Housing and Local Government on May 17, whether he would place a preservation order on the various buildings at Euston Station which the British Transport Commission had served notice that they intend to demolish.

SIR KEITH JOSEPH, Parliamentary Secretary, wrote.—'The LCC have expert advice that the Great Hall at Euston prevents full advantage being taken of the Euston main line electrification. The Minister does not therefore feel justified in intervening, though he regrets the loss of the Hall. The experts advised that the Doric Arch must be moved but re-erected elsewhere on the site. The LCC are in touch with the British Transport Commission on this and Mr. Brooke has asked to be kept informed.'

The Brick Shortage

COMMANDER MAITLAND asked the Minister of Housing and Local Government on May 17, if he was aware that delays in the supply of bricks were creating considerable difficulties in the Spilsby region of Lincolnshire and were causing unemployment; and what steps he had taken to improve the situation.

MR. BROOKE wrote.—'I received a letter from the Spilsby RDC the day after Cmdr. Maitland put down his question, and I am asking the council for further information. I have had no other complaints from this part of the country and, as regards unemployment locally, vacancies for building tradesmen far exceed the number of unemployed.'

Development in North-East

'There have been so far 16 preliminary applications for assistance under the Local Employment Act for development in the north-east. In addition, there have been about 150 inquiries from firms who appear to be interested.' (*Board of Trade*, May 17).

Architects and Hospital Design

Planning and Building New Hospitals

A PAPER entitled 'The hospital service: today and tomorrow,' by MR. W. E. HALL, FICS. Director of the Division of Hospital Facilities, King Edward's Hospital Fund for London, was given to the annual conference of the Chartered Institute of Secretaries, held at Norwich on May 19. Following are extracts from Mr. Hall's paper:

Because of the time it takes to plan and build a hospital, and the continuous rapid advances in medical knowledge and technique, a hospital may soon be out-of-date. It is therefore reasonable to include in the original design some provision for a limited flexibility in the space allocations, and even for modest expansion, but a hospital which is out of balance because parts of it are disproportionately expanded, or because it remains uncompleted for a number of years, may prove to be grossly uneconomical in maintenance costs.

It is claimed that, compared with a multi-storey building, a single-storey structure is cheaper and easier to build, allows more freedom for the future growth of departments, and reduces the time absorbed in traffic movements within the building. On the other hand, in a multi-storey building the pattern of a ward, for example, can be repeated vertically; this reduces the cost of plumbing and other expensive services, gives opportunities for mechanical transport by lifts, and offers considerable possibilities of savings in cleaning, heating and lighting costs.

One may also doubt whether it is good policy to use up valuable land by a sprawling single-storey building; surely it is preferable to see a small area taken up by a compact building and the remainder of the site developed as recreational gardens, isolating the hospital from the noise of traffic, etc?

The size of a hospital is obviously a matter of great importance, for at one end of the scale there is the hospital which, although providing essential services, is too small to be economical in maintenance, whereas at the other end, there is the very large hospital which tends to be unwieldy to manage and unfriendly in its general atmosphere. The indications are that for a general hospital of the future a range of 400 to 600 beds might be regarded as an optimum size both from the point of view of management and staffing as well as the need for each of the constituent departments to be large enough to provide an economical service.

Additional considerations apply in the case of a teaching hospital.

Course at the RIBA

THE HOSPITAL building programme, which has been severely limited for many years, is being substantially increased. Because there has been so little hospital building neither hospital staffs nor architects have much first-hand experience of the most advanced hospital design. Architects have had little opportunity to familiarise themselves with current trends in the health service, or to study in detail the activities and requirements of hospital staff and patients, on an understanding of which hospital planning depends.

For this reason the RIBA, in co-operation with the Ministry of Health, the Department of Health for Scotland and the Regional Hospital Boards, has arranged a Hospitals Course for architects at the RIBA, 66 Portland-place, London, W1, from Monday, July 11, to Friday, July 15. The papers will not be available in advance, and admission to the course will only be by ticket. An exhibition of recent work and projected new hospital building will be shown at the RIBA during the course.

Letters to the Editor

Insulation of Cavity Walling ; Inaccurate Advertisement Drawings

Insulation for Cavity Walling

SIR,—In an article on 'Better Insulation for Cavity Walling and Roofing' in your issue of April 15, it was stated that 'glass fibre is hygroscopic to a degree.' This is not so. At the densities at which glass fibre materials are normally used in this application, they are neither hygroscopic nor are they capable of any capillary attraction.

So far as the moisture migration across the cavity goes the critical feature of any filler which is placed in the cavity is not whether it is hygroscopic but whether it exhibits any wicking. The resin bonded Fibreglass which is used in cavity wall insulation does not wick moisture and, providing no moisture droppings are left across the cavity, then the cavity wall insulation will not transmit moisture.

The inner leaf of a cavity wall can become moist due to humid conditions indoors and invariably the only way in which moisture can escape from this inner leaf is by movement outwards. If a vapour barrier in the cavity prevents this movement then there can be quite a large build-up of moisture in the inner leaf over a period of time. One of the main advantages of using a material such as Fibreglass cavity wall insulation is that it does not incorporate in itself a vapour barrier.

J. PARRY GREEN,
Publicity Manager,
Fibreglass Ltd., St. Helens, Lancs.

Inaccurate Advertisement Drawings

SIR,—In these days when so many within the building industry are striving harder than ever to comply with the building regulations and thus to reduce the toll of accidents, it does seem a pity that so many advertisers in the trade papers should use photographs or drawings in which flagrant breaches of the regulations are apparent.

It is realised that an advertiser wishes primarily to draw attention to his product and is thus only indirectly concerned about the setting in which it appears, and it is also recognised that room must be made for artist's licence. Nevertheless, the displaying in advertisements of dangerous and sometimes illegal practices, and the possibility that others may copy these in practice as well as in print, does seem to be a matter calling for some attention, and it is hoped that this letter will serve to stimulate advertisers or their agents to watch this matter more carefully.

G. H. S. PRICE,
Charles R. Price, Building and Engineering Contractors,
Kingsbury-road, NW9.

Motorways Construction

Opposition to Minister's Policy on Consulting Engineers

THE REPLACING of county council staff by consulting engineers as agents on the construction of future motorways as proposed by the Minister of Transport (reported in 'The Builder' of May 20, page 977) was strongly attacked at a meeting of the West Riding County Council on May 18.

The West Riding highways committee had asked the Minister to nominate the county council as his agents for the preparation and supervision of the construction of the proposed Leeds-Sheffield motorway. The Minister had indicated that it was for the county council to convince him in any particular case that an exception should be made. The highways committee report stated that they were satisfied there was ample justification for the request, having regard to the county's record in connection with important major trunk road improvements.

ALD. A. DWYER, chairman of the highways committee, said they felt very bitter about the proposed change. He felt the change was the thin end of the wedge. They were being asked to sell their birthright into the hands of consultants.

ALD. MAJOR J. H. HUDSON, vice-chairman of the council, said the proposal was 'a threat to county councils as major highway authorities.' He felt that the proposal would have a serious effect on the county council's recruitment of high-class professional staff because the consultants would require large increases of their own staff and would offer salaries which would probably draw them away from local highway authorities.

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Building in the City

Half the Bombed Floor Space Now Replaced

MR. B. G. ARTHUR, chairman of the Improvements and Town Planning Committee, told the Court of Common Council of the City of London on May 12 that roughly half of the floor space lost in the City as a result of enemy action had been or would shortly be replaced. This had been achieved at a cost of £75m.

Mr. Arthur, who was presenting a review of the committee's work in 1959, emphasised the extent to which post-war city development was becoming more exclusively an office area with less space devoted to warehouses and commerce.

Although the city was only half-way towards complete reconstruction, floor space devoted to office use already exceeded the pre-war use by 7½ per cent. 'It seems therefore that with the continued demand for office accommodation it becomes increasingly important to keep a close scrutiny on the growth of office user if our maximum daytime population, which has been fixed at 472,000, is not to be grossly exceeded in future.'

They had already helped by the fact that of the four large areas of war damage remaining, namely Tower Hill, Queen Victoria-street, Paternoster-row and the Barbican, two of them were unlikely to be devoted to office use.

This, said Mr. Arthur, was because the Barbican area was zoned as 'residential' and Queen Victoria-street as 'commerce.' This meant that any office user would be limited to floor space approximately half of that which would be permitted for commercial use, and this left the daytime population unaffected despite the more intensive use.

Fewer Planning Refusals

The number of refusals of applications for planning permission continued to decline. This, he felt, was a gratifying state of affairs and reflected the increasing co-operation between the developer, his architect and the planning authority.

The review stated that the progress of post-war reconstruction had been maintained during the year. Work on a further 1m. sq. ft. of floor space had been started. This now brought the overall floor space of post-war replacement and floor space in course of replacement, to over 14m. sq. ft.

As in previous years, office building had predominated and the total floor space exclusively used for office purposes now exceeded 40½m. sq. ft., which represented an excess of 7½ per cent over the pre-war office space.

The amount of office floor space completed during the year was 1,295,000 sq. ft. and comprised some 32 major building projects. The estimated capital cost of these buildings, excluding land, was in the region of £7m. A further 31 major projects were under construction at the end of the year.

Capital expenditure on major projects built in the post-war period up to the end of last year was estimated at £56m. and capital expenditure work at present under construction at £19m. The estimated cost of capital expenditure if work was commenced on projects for which planning permission has been given was £24m.

The review pointed out that the current standard provision for car parking accommodation in new office buildings in the city was one car space (16 ft. x 8 ft.) for every 2,500 sq. ft. of gross floor space, and stated that the total accommodation made available in this way to date would provide accommodation for no less than 4,000 vehicles.

The London County Council had adopted a more stringent standard—one car space per 2,000 sq. ft. of gross floor space—but this standard was not considered justifiable in the City, where multi-storey car parks were to be provided. The issue would no doubt be decided by the Ministry of Housing and Local Government.

Gross expenditure on all land acquisition and site clearance up to the end of the year was £22,177,010, which was reduced by the receipt of converted value payments to a net figure of £19,638,744. Of this total a net expenditure of £1,249,507, was incurred in 1959.

The purchase notice acquisitions had remained at a nominal level—only two notices being confirmed during the year and three completions being effected. The inevitable time factor in obtaining confirmation of compulsory purchase orders had reduced the number of purchases under this heading.

On the other hand, there had been an increase in the number of purchases by agreement, particularly where compulsory purchase orders were awaiting confirmation and the properties were urgently required, and also in cases where properties were affected by 'planning blight' (where owners were unable to sell their properties because they were affected by the Corporation's planning proposals).

Purchase notice properties and purchases by agreement were transferred to redevelopment units as they were formed and to date 532 of the total of such purchases had been transferred.

The majority of war-damaged land required for redevelopment had already been acquired and more purchases were now taking place of occupied buildings affected by planning proposals.

Redevelopment Units

On progress in redevelopment units, the review says that 29 units have now been approved by the Court. Further units now under consideration were No. 32 (Aldersgate-street, west side); No. 35 (Cheapside, south); No. 39 (Cheapside, north); No. 40 (Holborn Circus); No. 41 (Printer-street area); No. 42 (Queen Victoria-street, south side); and No. 43 (Ludgate Hill, south side).

The Court approved the following recommendations of the Improvements and Town Planning Committee:

To permit the erection of an addition on the roof of the 'Evening Standard' building, 47 Shoe-lane, for use as offices (Ellis, Clarke and Gallannaugh, 37 Soho-square, W1);

To grant permission on an outline application for rebuilding of the war damaged Block 'U' at Brooks Wharf, Upper Thames-street, for use as offices ancillary to the adjacent warehouses, and as showrooms (Kersey, Gale and Spooner, Vintry House, Queen Street-place, EC4);

To approve drawings for the erection of an office building with retail shops on the ground floor frontage to Cheapside, Bow Churchyard and Bread-street, including a basement car park, at Bow Bells House, 46 to 55 Cheapside, 51 to 66 Bread-street, 78, 79 and 79A Watling-street, 1 to 4 and parts of 7 and 8 Bow Churchyard and Star Court (Cotton, Ballard and Blow, 5 Baker-street, W1).

Building Near St. Paul's

MR. G. M. VINE asked whether the attention of the chairman of the Improvements and Town Planning Committee had been drawn to a statement in the 'Industrial Daily News' that a building was to be erected on the site south of St. Paul's and adjoining the College of Heralds containing about 200,000 sq. ft. of office space together with a museum for the College of Heralds.

'Having regard to the fact that when developers were asked to tender subject to considerations which would provide only about 125,000 sq. ft., is he in a position to make any statement?'

The chairman, MR. ARTHUR, said that on February 26 last the Court accepted an offer of Priane Investments Ltd. to enter into a building agreement and to take a lease of the site which forms part of the Bridge House Estates. One of the terms of the agreement provided that the proposed lessee must obtain planning permission.

Mr. Arthur said that an application for this permission was received by the City Planning Officer on May 10 and the accompanying plans, which had been deposited for approval, provided for 148,900 sq. ft. of office floor space. His committee had not yet had an opportunity to consider the application.

'I have, however, ascertained that the original tender included a plan which indicated the site areas which would be developed and stipulated a maximum height and number of floors above ground level for the various blocks, but did not limit the overall floor space which could be provided to 125,000 sq. ft.

'In fact, the amount of office floor space that can be provided in this development is governed by the amount that the architect can devise which will satisfy the planning requirements for the site as shown on the plan.'

Export Promotion Leaflets

DETAILS OF the ways in which industry can co-operate in Britain's overseas publicity are explained in a new edition of the Government's Export Promotion Leaflets published by COI. Any company with a good news story to tell is offered considerable opportunities of obtaining editorial publicity overseas by working with the Government Information Services. The COI acting on behalf of Government Departments, has a central role in compiling and distributing material to carry out the national policy of building up a picture of Britain as a resourceful, inventive and up-to-date manufacturing nation. Copies of the leaflets may be obtained from E. C. R. Hadfield, Controller (Overseas) COI, Hercules-road, SE1.

Labour Shortage in Buckinghamshire

County's Difficulties Accentuated by Wage Increase

BUCKINGHAMSHIRE county works committee state in a report to the council that they are experiencing considerable difficulty in obtaining sufficient labour for the current building programme, and the wage award to building trade operatives of 2½d. an hour effective from April 18 last is making it difficult to obtain tenders for school building within the cost-per-place limits set by the Minister of Education.

The committee report that they have the position under constant review, and are doing what they can to encourage contractors to tender for the council's work. They have considered the possible future use of labour-saving proprietary systems of construction, but are satisfied that, in general, these are not such a good capital investment as traditional construction, and are no cheaper.

The increased cost to the council of the pay award to building trade operatives in respect of the projects for which tenders are being invited this financial year is estimated at £39,000. The current cost-per-place figures were first fixed by the Minister in 1954, and since that time increases in the figures amounting in all to 5.5 per cent have been permitted.

During the period since 1954, however, wages in the building industry and associated payments for insurances and holidays-with-pay have risen by 40.5 per cent. During the same period building materials have risen in price by 12 per cent.

On the assumption that an average building job consists of 50 per cent labour and 50 per cent materials, the increased cost of building over the period has been no less than 26.25 per cent, yet by improved techniques the committee have so far been able to build schools at a cost-per-place within the Minister's ceiling figure currently in force.

Godalming Planning Appeal Allowed

Council 'Misinformed Themselves' of Scope of Control

AN APPEAL by a firm of hatters' furriers, C. M. Gay and Co. Ltd., against the refusal of Godalming Town Council (acting for Surrey County Council) to grant planning permission for alterations to their premises at No. 49 High-street, Godalming, has been allowed by the Minister of Housing and Local Government.

At the local inquiry the Town Council submitted that the magnitude of the alterations proposed amounted to redeveloping the site for industrial use. The company contended that all they wished to do was to carry out necessary alterations to premises for which there was an existing use.

In a letter announcing the decision, the Ministry say that in the opinion of the Inspector, the local authority, 'in their desire to get rid of a non-conforming industry, have misinformed themselves as to the scope of their planning control.' The appellants had applied merely to improve and reconstruct the building; there was no extension and the external alteration and removal of the goods entrance to the yard would be an improvement.

The access to the road was thoroughly bad and could not be improved, but it had been long established, and the appellants had a right to use it in either direction. Even this use was preferable to loading and unloading on the highway.

The Inspector said that if the Council felt strongly about this non-conforming industry they should extinguish the user by an order under Section 26 of the Town and Country Planning Act. He recommended that the appeal should be allowed on the grounds that the interior improvements and replacements were not development; the external alterations would be a great improvement to the appearance of the building; and the removal of the goods entrance from the High-street to the back yard would result in less interference with traffic.

In granting the appeal, the Minister said that with regard to making an order under Section 26 of the Act, the matter rested with the local planning authority and he had not considered the merits of such action.

Personal Column

MR. J. L. SPOONER, chairman of the Spooner Group of Companies, is visiting the continent at the end of May to study building techniques and materials.

MR. J. E. BIRCH has been appointed managing director of P. J. Hartel (London) Ltd., 1 Montague-st., WC1, and MR. W. J. J. JOHNSTONE has been appointed joint managing director of P. J. Hartel (Southern) Ltd., 10 Cumberland-pl., Southampton.

MR. D. HARMAN POWELL, MSIA, FRSA, has been appointed head of the design studio of Ekco Plastics Ltd., Southend-on-Sea, Essex.

MR. HERBERT HUXHAM MILLETT, sales director of Rhodes Chains Ltd., 8 Southampton-row, WC1, has retired from the company.

MR. W. TOMKINSON has been appointed a director of The Cement Marketing Company Ltd., the selling organisation of The Blue Circle Group of Companies.

MR. E. H. BEAUMONT, sales and technical manager of Evode's industrial adhesives division, is visiting the United States and Canada, where he will investigate the use of adhesives in those countries.

MR. T. R. HALL has been appointed to the board of directors of John Hall & Sons (Bristol & London) Ltd., the paint and varnish manufacturers.

At a meeting of the directors of G. T. Crouch Ltd., held recently, it was resolved that MESSRS. N. DOUGLAS, E. H. RAQUET and R. E. EADES be appointed directors of the company.

MR. JOSEPH MAUGHAN GAFFNEY, general manager, Greenham Equipments Ltd., has been appointed a director. MR. DAVID SHINTON, office manager at Greenham Tool Company Ltd.'s head office, Isleworth, Middlesex, has been appointed a director.

MR. LEOPOLD DE ROTHSCHILD has joined the board of BOECC Ltd., a member of the Taylor Woodrow Group.

Cricket

RIBA Beat Vitruvians

THE RIBA CRICKET XI won their first match of the season against the Vitruvians (the technical Press XI) at Elstree on May 11, after a close finish. Scores:

RIBA

J. G. Batty c. Webb b. Cartwright	10
A. E. J. Morris b. Cartwright	8
D. L. Robinson c. Webb b. Cartwright	19
W. E. A. Beeston b. Cartwright	5
K. Roberts lbw. Cartwright	27
D. A. Stevens c. Burns b. Cartwright	1
C. A. R. Norton c. Barnett b. Dowson	32
M. B. Pache not out	4
M. Firrell c. Dowson b. Cartwright	6
J. Thorn not out	5
Extras	5
For 8 wkts. dec.	122

Cartwright 7 for 60, Barnett 0 for 16, Sayers 0 for 7, Burns 0 for 12, Dowson 1 for 22.

VITRUVIANS

G. Cartwright c. Norton b. Firrell	17
A. Barnett b. Firrell	18
R. Skelton c. Roberts b. Firrell	6
D. Barrington-Sayers b. Firrell	0
R. Dowson c. Beeston b. Robinson	9
R. Mudie not out	18
L. Webb c. and b. Roberts	11
R. Baert b. Batty	17
J. Wood b. Firrell	0
D. Burns b. Batty	0
W. A. K. Faldo did not bat	
Extras	8
	104

Firrell 5 for 30, Stevens 0 for 15, Robinson 1 for 18, Roberts 1 for 10, Thorn 0 for 11, Batty 2 for 12.

Company News

RICHARD COSTAIN LTD., and WILLIAM PRESS & SON LTD., jointly announce that they have formed two companies, COSTAIN & PRESS (OVERSEAS SERVICES) LTD., and COSTAIN & PRESS (OVERSEAS) LTD., with registered offices at 111 Westminster Bridge-road, London, SE1. The new companies are being formed to undertake constructional projects in all parts of the world in which the civil engineering and building experience of Richard Costain can be allied to the mechanical engineering and pipeline construction experience of William Press.

J. MARTIN (BROCKLEY) LTD. have now formed a new company to be known as J. Martin (London) Ltd. at 3 High-st., Seaford, Sussex, to deal with work in the South Coast area.

Books Received

***Books noted in these columns may be obtained on application to the Book Dept., 'The Builder,' 4 Catherine-street, Aldwych, WC2. Cash (to include postage on books to the value of 10s. 9d.; over 10s., 1s. 6d.) should accompany the order.*

CONCRETE IN BUILDING WORK—MATERIALS AND TECHNIQUES. By W. G. Gregory. (London: Oxford University Press.) Price 7s. 6d.

GARAGES AND SERVICE STATIONS. By Rolf Vahlefeld and Friedrich Jacques. (London: Leonard Hill Books Ltd.) Price 63s.

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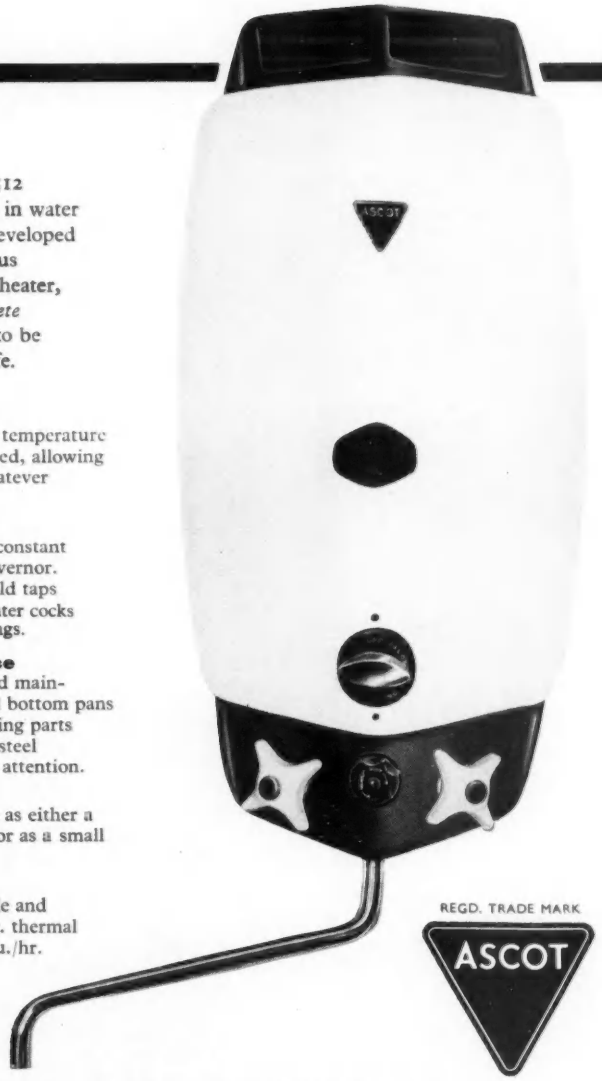
F

Introducing the

Ascot De Luxe G512

the new water heater giving complete control



The New Ascot De Luxe type G512 represents the latest developments in water heater design and performance. Developed by Ascot for use as an instantaneous multipoint and single-point water heater, this Ascot De Luxe with its *complete* controls for gas and water is sure to be popular with the modern housewife. Here are some of its features:

Temperature Selector
A temperature selector controlling a temperature rise between 45°-100°F is incorporated, allowing the housewife to choose water at whatever heat she wants.

Gas and Water Controls
The Ascot De Luxe is fitted with a constant volume gas governor and a water governor. External controls include hot and cold taps and a rotary gas control. Gas and water cocks are an integral part of the heater linings.

Ease of Fixing and Maintenance
The De Luxe ensures easy fixing and maintenance. The outer case and top and bottom pans are quickly detachable, and all working parts are readily accessible. The stainless steel Ascot 'flat flame' burner needs little attention.

Versatility
The De Luxe is designed to operate as either a single point heater with a 9" spout, or as a small multipoint heater.

Performance
The De Luxe is 23¼" high, 10¼" wide and 8 5/16" deep and gives 30,000 B.t.u./hr. thermal output from an input of 40,000 B.t.u./hr. producing 0.5 g.p.m. raised 100°F, 0.625 g.p.m. raised 80°F, and pro rata. Pilot consumption is 250 B.t.u./hr.

For full details of the Ascot De Luxe type G512 write to
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Director-Designate's Views on Education

BUILDING EDUCATION in the years ahead was briefly surveyed by Dr. C. A. Hart, CMG, TD, DSc(Eng), PhD, Director-Designate LMBA, when he responded to the toast of the guests (proposed by Mr. C. F. Elvins, FIOB, Junior Vice-Chairman of the Area), at the luncheon given by the Association's Central Area No. 3 and held in the Stationers' Hall, EC4, on May 10 with Mr. L. H. Colls, FIOB, in the chair. A short account of the luncheon was given on May 13 issue.

DR. HART said that after years of activity abroad in a constant and relentless atmosphere of change, he could sense here in England that fundamental changes in outlook were now stirring in the world of building. He continued:

Professional Aspect of Management

'We often refer to the three professions, architects, surveyors and builders. But for ourselves, we still have to establish the professional aspect of management and technological control. During recent years in friendly and helpful negotiations with more than a dozen professional bodies and Universities in the UK. I have become very conscious of the urge for status and recognition. Membership of a professional body must connote adequate practical experience and strict adherence to a code of practice and in the eyes of the public, technical skill, integrity and sound economic performance. The Institute of Builders in its present form is beginning to make its contribution, but there should also be a recognised channel to the professional qualifications in building via full academic training at degree level.

'Chartered' Civil, Mechanical and Electrical Engineers in industry have comparable status with their fellows who are consultants or public officials. The current proposals to train architects, surveyors and builders under one roof are in the right direction if civil or at least structural engineering is included. Is it too much to hope that before long we shall have not only the Chartered Architect and Chartered Surveyor but also the "Chartered Builder"?

'Building craft groups have remained much the same for hundreds of years, except where modern techniques and materials have forced a reassessment of their boundaries, but I notice in the constant search for economy and efficiency there is a realisation of their close linkage with improvement of craftsmen's conditions and opportunities so as to attract the best type of youth to building.

'Dignity and sense of responsibility in craft traditions were built up in the Guilds by the gathering together of men with common interests and outlook. In the course of time, for various reasons, each trade developed restrictions in operation for its own protection, thus discouraging recruitment of many who would rank among the best technicians. I have found in recent years overseas a number of really first-class men, whose main reason for moving out of this country could be attributed to irksome restrictions upon their industry, initiative and enterprise.

'Therefore, just as it has not been considered economic or appropriate to rebuild this City as it was before, but to take full advantage of the present and be ready for the future, so must we, I suggest, find a means of recasting the structure of the building crafts.

'Many of the demarcation and other craft restrictions, originally having an economic basis, have become an irritant and a hindrance protecting the idle and inefficient. They are purely artificial while contributing nothing of value to efficiency and progress. It is important to make a real distinction in financial reward and status between the various craft skills, as well as between skilled and unskilled, and recognise that their effective application varies between men of varying skills, intelligence and industry.

'Could we not build upon the excellent apprenticeship system which has been built up in our Federation by widening the scheme? After perhaps a shortened initial craft training period there could be differentiation between those who are more suited by aptitude and intelligence for the limitation of ordinary craftwork and those who could with advantage to the industry widen their scope. The training of those selected could then be continued into a wider craft field as "building technicians," unhampered by craft restrictions in return for opportunity and status. In the past many of our famous builders and civil engineers were first of all good and intelligent craftsmen possessing industry and drive and who were unhampered by artificial restrictions. They had a sense of duty and were prepared to take calculated risks of leadership.

'Building,' Dr. Hart concluded, 'is of course as we know an industry in which the really good man can still rise to the top, but the route by which the humblest apprentice can "reach for the sky" should be publicly known.'

Retention Moneys

MR. R. F. MANSELL, FIOB, who proposed the toast of 'Central Area No. 3,' said: 'Our President at his election suggested that during this year we might exercise a questioning approach to matters which personally or as an industry we have taken for granted in the past. Such a subject is the amount of retention moneys on building contracts.

'Too often, with little thought, the architect insists and the contractor accepts the maximum permitted 10 per cent of the contract figure as a limit of retention. When one considers that such a percentage amounts to £100,000 for every £1,000,000 worth of work done, something of the magnitude of the total involved becomes apparent.

'Builders are well aware what a small part of retention moneys are ever spent in rectifying defects and it is time, I think, that we questioned to what degree we should be expected to hamper our business efficiency by financing the building owner out of our working capital.'

MR. L. H. COLLS, Chairman of the Area, responded.

Cast Stone and Cast Concrete Products

Federation's Annual General Meeting

THE 32nd annual general meeting of the British Cast Concrete Federation was held at the Waldorf Hotel, London, on April 26 and the chairman, Mr. W. H. Tolley, welcomed some 80 members from all parts of Great Britain, including representatives from the Scottish Precast Concrete Manufacturers' Association, which is affiliated to the BCCF.

Support for Stockholm Congress

It was reported that considerable support had been forthcoming for the Third International Congress of the Precast Concrete Industry to be held in Stockholm in June. More than 750 participants were expected, of whom 50 would be from the UK. The international machinery exhibition had also been well supported and more than 100 exhibitors had booked some 40,000 sq. ft. of space. An innovation was the 'Idea Exhibition' at which it was intended to show different methods of application of precast concrete units. The UK was contributing one of the papers to the congress, viz: 'Vibration—Its practical application to Precast Concrete,' the reporter being Mr. Eric F. Wettern and the co-reporter Mr. G. S. Mitchell, MC, BSc(Eng), AMInstCE.

The new Council of the British Cast Concrete Federation comprises:

O. A. Aisher, Marley Tile Co., Ltd.; G. K. Allen, Tarmac Vinculum Ltd.; R. H. Bates (President), Ferroconcrete (Lancs.) Ltd.; E. S. Behn, Forticrete Ltd.; J. F. Bradford, F. Bradford & Co. Ltd.; S. Browning, Trollope & Colls Ltd.; K. D. Coe and E. L. Cotterell, Limmer & Trinidad Lake Asphalt Co. Ltd.; J. S. Dickinson, Samuel Tyzack & Co. Ltd.; R. F. Fearnley, William Prestwich & Sons Ltd.; M. Girling, Girlings Ferroconcrete Co. Ltd.; L. T. Gordon, Bradley (Concrete) Ltd.; C. P. Howden, Hull Concrete Stone Co. Ltd.; H. W. Hutchings, Wharf Lane Concrete Co. Ltd.; D. H. Marshall, S. Marshall & Sons Ltd.; J. A. Matthews, Tidnams Ltd.; D. McGee, Hilcrete Ltd.; H. G. Mullard, Cowley Concrete Co. Ltd.; J. W. Panton, Erith Construction Co. Ltd.; G. R. Saunders, Saunders (Ipswich) Ltd.; N. F. Spence, Croft Granite, Brick & Concrete Co. Ltd.; W. H. Tolley, Devon Concrete Works Ltd.; W. H. Waring, Warings (Contractors) Ltd.; E. F. Wettern, Mono Concrete Co. Ltd.; P. G. Whitehouse, Whitehouse Precast Concrete Ltd.; E. Williams, Craig-yr-Hesg Quarries (Pontypridd) Ltd.; A. F. F. Young (dep. L. G. Snow), Redland Tiles Ltd.

SPCMA: J. Beattie, Costain Concrete Co. Ltd.; P. Galbraith, James K. Miller Ltd.; J. Wilson, Wilson's Terrazzo Manufacturing Co. Ltd. At a following meeting Mr. R. F. Fearnley was elected as the new Chairman and Mr. E. F. Wettern as the new Vice-Chairman. Mr. R. H. Bates was re-elected as President and Mr. E. L. Cotterell as Vice-President.

Lamps and Lighting

Further Improvements in Performance and Quality

From a Special Correspondent

LAMPS, fittings and integrated lighting equipment were well in evidence at the recent Electrical Engineers Exhibition, visitors to which were left in no doubt as to the importance of applied illumination techniques in modern building. Luminaires for industrial, commercial and decorative interiors were displayed in all their varieties by nearly forty specialist firms, many of whom also exhibited lighting fittings for street, building façade and area illumination.

Every year sees improvements in the performance and qualities of the different types of light sources, and in particular much attention has been focused on main voltage fluorescent tubes. Apart from technical changes concerned with luminous efficiency, the most significant introduction is the new 'De Luxe Natural' colour. Although fluorescent lamps have long been available in six different 'whites,' it was felt that none of these was ideally suited to food display. The new lamp, in 4 ft. 40 watt, 5 ft. 80 watt and 8 ft. 125 watt ratings is said to offer red rendering properties superior to the tungsten lamp and blue, green, yellow and white appearances which have the freshness of a spring morning.

Higher wattage sodium vapour lamps are now being produced for improving our standards of street lighting, and a number of enterprising firms have designed special fittings for the flood lighting of façades and building excavation areas. Where colour discrimination is of lesser importance than visual acuity, these very highly efficient light sources may be recommended.

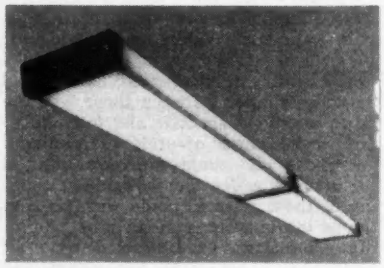
Another lamp having an industrial application for building sites or factory interiors where dirt and dust are prevalent and access is difficult, is the reflector type high pressure mercury fluorescent. The top reflector surface of the lamp (250 and 400 watt) is of parabolic shape and the colour value of the emitted light is much better than that of an uncorrected mercury vapour lamp. There has been a great improvement in the colour rendering quality of the standard mercury fluorescent lamps, and these are ideally suited for street and industrial lighting provided they are used with external reflectors. The seven ratings available vary from 50- to 1,000-watt.

Disguising Control Gear

One disadvantage of tubular fluorescent lamps is the necessity for accompanying control gear. Since this feature is an inherent characteristic of discharge lamp operation, the fittings manufacturer attempts to disguise its presence. Slimmer control gear is being used by many firms and the overall cross section of the basic component channel need not be more than 2½ in. wide and 1 11/16 in. deep.

Minimum depth multi-lamp decorative fittings for direct ceiling mountings in public buildings, large stores, etc., are now available from many sources. These are designed with the control gear contained in a channel arranged between the lamps and a total projection from the ceiling of the order of 4 in.

Although control gear is more reliable than ever, and fluorescent lamps have a rating life of 5,000 hours, ease of access for maintenance and cleaning is still very necessary. It is usual practice, therefore, for the diffuser component to be hinged from either side and to be positively attached without the use of tools. In one range the provision of coupling pieces enables individual units to be mounted in a continuous line, thus permitting the lighting element to be more or less 'tailor made' to suit site requirements. Opal plastic side panels and a bottom frame of ½ in. cube translucent egg box louvres, give the fitting (4¾ in. deep) an elegant and pleasing appearance.

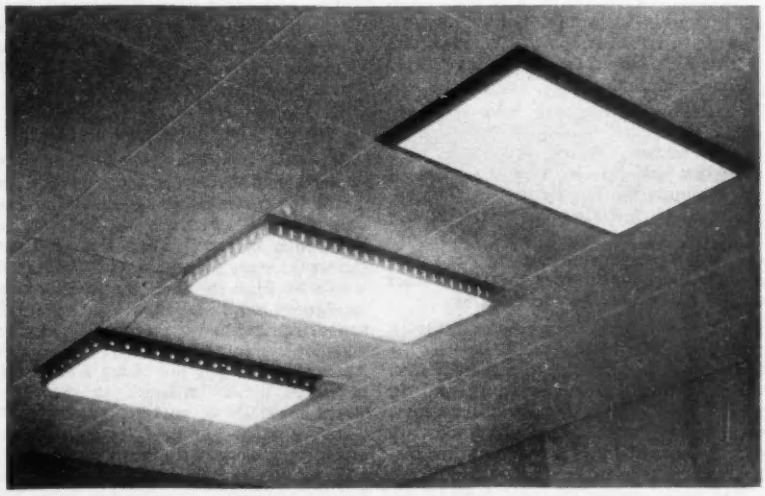


'Flo-line' fluorescent lamp fitting. By Benjamin Electric Co., Ltd., Tottenham, London

With an eye to the popularity of Continental stylings, one specialist supplier is now importing Italian fluorescent fittings which are provided with control gear of British manufacture. Metalwork is of untarnishable brass and diffusers are of rippled opal perspex. The range of pendants, wall brackets and ceiling units, some of which house circular fluorescent lamps, can be recommended for traditionally furnished interiors requiring lighting fittings of a more classical line than is usual in this field.

Perhaps most progress has been made in integrated lighting design, the two main lines of established approach being flush elements for use in modular constructed ceilings and the marketing of new types of completely luminous suspended ceilings. In the module field, the fittings for cavity ceilings have standard dimensions of 2 ft. x 2 ft., 2 ft. x 4 ft. and 2 ft. x 6 ft., and some firms offer appropriate equipment based on a 1 ft. module. The diffusers are plain or patterned opal perspex dishes or flat panels and square or diamond polystyrene louvres. Ease of installation and fixing, and adaptability to proprietary suspended ceilings are points to be watched when considering purchase. In most designs the top tray can be suspended or detached from the supporting frame, to allow of access to the services above. Variety can be produced by supporting the diffuser in a dropped frame (1, 2 or 3 in. in depth) which may be perforated to produce visual sparkle.

A unique and attractive product is the new 'Circlgrid' 2 ft. sq. PVC louvered panel supplied for use in an extruded aluminium supporting framework. Each tile consists of two vacuum-formed sheets welded to a flat central membrane to give ½ in. dia. circular louvre cells having a 45 deg. cutoff angle. Patterning and variation in diffusive properties is possible, as the tile may be fabricated of two white sheets, two pearl or frosted sheets, or one white and one pearl.



Module fluorescent lamp fittings with dropped frame diffusers. By Revo Electric Co., Ltd., Tipton, Staffs

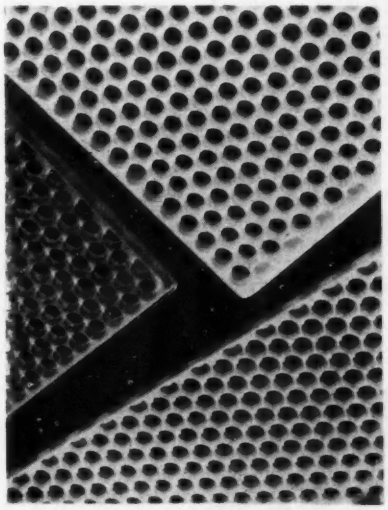
In direct contrast to 'louverall' ceilings there is the Isora panel system, widely used as an artificial and natural light diffuser. This luminous ceiling comprises 40 in. sq. mild steel frames, over which a thin film of non-sag PVC is stretched. Daylight blue, frosted white and coloured sheets can be supplied and additional diffusion is possible using double film thicknesses. The frames are light in weight and are supported in a T-section framework—they can be easily lifted from below to permit lamp changing. The film itself is very tough but if damaged, due to mishandling, can be replaced at a nominal charge. The light sources used above are fluorescent tubes (hot or cold cathode type) arranged in continuous lines and at suitable spacings.

A Versatile Suspended Ceiling

The Ionlite series suspended ceiling is a successful attempt at offering the designer a versatile construction catering for all demands. The transverse supporting beams can be varied to support any reasonable size and type of rectangular infiller. The undersides of the beams, supplied in $1\frac{3}{8}$ in. or $1\frac{1}{16}$ in. widths, are PVC clad in a choice of colours or finishes. Fluorescent tubes are hung as desired above the luminous panels and tungsten lamps fittings, such as framed reflector lamp spotlights, can be used as infillers. The 'T' channels can also form a support for a $2\frac{1}{2}$ in. wide extruded 'Diakon' diffuser, if the narrow 'light beam' method of illumination is desired.

One firm of lighting specialists has made a detailed study of suspended ceilings which integrate lighting, electrical and mechanical services and has developed a range of components and systems giving wide flexibility in aesthetic design. In addition to corrugated PVC strip diffusers there is a series of formed plastic lighting panels in 2 ft. and 3 ft. sq. sizes, miniature samples of which are sent to interested clients.

The long life, high luminous efficiency and general robustness of the miniature fluorescent lamp has encouraged its use in weatherproof bulkhead fittings. Two or three 12 in. 8-watt or 21 in. 13-watt tubes are employed with opal or reeded glass or perspex front covers.



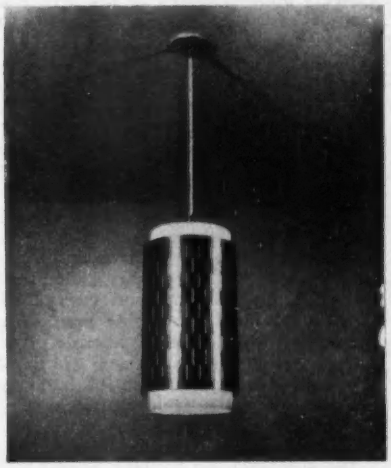
The three finishes of 'Circlgrid' PVC ceiling tile give varying degrees of diffusion

The design of tungsten lamp lighting fittings, based on the varied assembly of standard components, has been adopted by many firms in order to simplify manufacture and stocking and keep prices down. Typical is the 'Variform' range, comprising single and multilamp, wall brackets, pendants and ceiling mounted fittings. Diffuser attachments are of satin finished opal glass, washable fabric backed with acetate and plastic materials, and group coded catalogue numbers are used for ease of identification. One trend in decorative design is the double transmission technique which generally takes the form of a white opal diffuser partially covered with an outer coloured glass or plastic. Sometimes the external member is formed of perforated metal with a stoved enamel finish. One firm exhibited a series of opal plastic diffusers made from a rigid polyethylene material which has a high degree of strength and chemical resistance. Washable in hot water.

Study lamp in brass with white opal glass and neutral perspex shade. By GEC, Magnet House, Kingsway, WC2

For industrial and limited commercial application continuous trunking, which carries lighting and other service cables and supports lighting fittings, has many advantages over conventional conduit wiring systems. New types have been developed and in one proprietary design the fluorescent lamp control gear is contained within the main channelling which, joined in 9 ft. or 15 ft. lengths, can be supported at centres up to 15 ft. The number of single or twin lamp reflectors used will depend on the illumination requirements and white plastic panels are supplied as infills between the fittings. The latter can be changed or resited along the trunking to suit a change in interior use, e.g., conversion of store to working area.

A considerable number of mains and low voltage tungsten lamp spotlights is now available for accent and display lighting requirements. Some fittings use internal reflector lamps and others



White opal glassware and slotted metal cylinder. By Falk Stadelmann and Co., Ltd., 91 Farringdon-rd., EC1

employ general service lamps and external super-purity aluminium reflectors. Swivel joints, necessary for angular adjustment, should be of sound construction and possess a positive means of locking. In one type seen, spinnings of various shapes can easily be attached to a common mounting bracket.

Although the architect is largely responsible for the aesthetic appearance of the lighting fittings used in his buildings, he should always be aware of the importance of their electrical design, mechanical construction and lighting performance. Keen price competition inevitably results in some firms lowering their standards of quality, and the professional consultant who does not prepare a detailed specification should examine all equipment in detail before recommending purchase. Fittings should never be chosen on grounds of price alone, since the cheapest in initial cost may often be the dearest to install and maintain.

Components and design should comply, wherever possible, with relevant British Standard Specifications, the publication of which uphold standards of quality and performance. In some instances fittings have to be in accord with Government regulations. The Ministry of Education, for example, have certain requirements in regard to the performance of lighting fittings for schools. Several firms have produced acceptable diffusers and these will often be suitable for general purpose use in offices and similar working areas.

The exhibition demonstrated very clearly the need for close collaboration between the architect, builder and lighting engineer, to ensure that systems of artificial illumination are suited to the interior in question.

'Aesthetic Standards for House-Builders'

Simplicity and Scale as Design Criteria

Correct understanding of the problems involved in the design and construction of dwelling houses and the streets in which they are located was considered by Mr. J. L. Heap, ARIBA, chief architect to a firm of registered house-builders, at a one-day conference sponsored by the Federation of Registered House-Builders in London on March 24 ('The Builder' of April 1). Mr. Heap dwelt upon the responsibilities of all concerned with the surroundings in which they live, placing particular emphasis on the architect, the builder and the house-purchaser. Extracts from his paper are given below

IT IS THE house-builder who decides generally, when, where, how and what to build, although he is influenced by circumstances and beset by difficulties. Having bought his land and ascertained that he can build upon it he must then get down to the detail of suitable plans and the fixing of selling prices. He must also work side by side with the building societies so that suitable mortgages can be arranged. This can be fun for the contemporary-minded builders.

The purchaser, for his part, is basically requiring shelter—at a price he can afford to pay. In consequence of this and other factors, such as a rising standard of living, higher education, greater social security, the impact of advertising and what he gathers from building research and other technical publications, the house purchaser of today is highly discriminating. He seeks good planning and sound construction, up-to-date equipment and better insulation.

The needs of the developer to make a profit and at the same time make provision for the intelligent requirements of the customer, can be met through the collaboration of architects and builders; neither can do it alone. Architects cannot ignore this challenge—we must collaborate with the builder to give him the benefit of our specialised experience. Any thought that the architect is a mere draughtsman working under a builder's thumb may be dismissed from the mind. This must be a common effort with architect and builder equally responsible for the final creation.

The Architect's Problem

Let us take a very quick look at the architect specialising in this field. For the first time he has the problem of designing a product to please clients whose identity and precise number are unknown. Cost and standardisation analysis becomes a new and vital problem. Site planning on an attractive scale gives the architect the opportunity to explore new ideas and learn the problems associated with all types of development from both sides of the fence, his own and the builder's.

Mass market designing also means keeping pace with the public's ability to obtain mortgages, and in this respect the questions of finance and acceptability of the designs by all the interested parties assumes importance.

First and foremost we are seeking to give pleasure to every householder by good planning and construction of his home, together with a pleasant exterior. To do this it is important, I think, not to be influenced too much by fashion. Any consideration of what houses should look like inevitably raises the question of the architectural styles. They, like fashions in clothes, come into existence because the originals were admired and imitated. Hence we try to perpetuate Tudor, Georgian or perhaps Elizabethan. These styles are often used in an attempt to capture some elusive quality of the past or simply to make a house look different from its neighbour.

Discordant Features

We often see side by side, shutters on one house, imitation stonework on another, houses with leaded lights and others will have large expanses of glass. When these are competing with one another the whole effect is one of confusion and chaos. This is surely not the way to create a pleasant street. The fact is that a row of houses is actually seen as one group and not as isolated units. The whole depends for its beauty upon the collective appearance of all the houses together.

When considering the exterior appearance of a house, therefore, we must think first of all of its general bulk and shape rather than the details and adornments. It is better, I feel, to concentrate on designs that have pleasant proportions of length, width and height. We should consider how these proportions are accentuated by well-designed windows and doors, and how the shape is enhanced by neat trimming to eaves, verge and fascia. It is well to note that fads and fancies do not remain in fashion very long.

To define in words the meaning of good proportions is almost impossible. It is all too easy to say that good aesthetic standards will depend upon good proportions, but ever since earliest times designers in every field have been trying to define what they mean by good proportions. I know of no rule of thumb guidance that can safely be given.

The elusive quality of beauty can, however, be created as we all know—sometimes it is achieved and gives satisfaction purely by chance, a happy accident. The trained designer may have been influenced, perhaps subconsciously, by what he has seen, what he has studied, or what he feels, or it may be achieved by a process of elimination. It must always be remembered, however, that if the architect's instructions are too rigid the result will inevitably be dull, however technically correct the whole conception.

A further consideration that must be borne in mind, in addition to the essence of shape and form, is colour and texture of materials, and in this respect those of the landscape will generally prove the most successful. The colour of earth, stone and trees. It is usually safer to reserve one's interest in the unusual for interior decoration.

Building society surveyors look at any new property, quite naturally, for its lasting qualities, but it should not be assumed that solid masonry is the only sound method of building. Many new materials with a great beauty are equally sound and with proper care and maintenance will last beyond a lifetime.

Can standardisation help in making houses and streets more beautiful? The answer is most definitely yes, for it can give harmony and rhythm. A developer is in a unique position to achieve this. We all know that some streets of individually-designed houses result in a pretty ghastly picture because they have no common bond tying them together. Standard components made up of good proportions, together with a correct blending of colour and texture are among the chief attributes necessary to create an attractive road.

The Importance of Grouping

Attractive houses, well designed, that blend together must be grouped correctly on a road. In the past this was not always done, with the unfortunate result of houses along main roads, with no beginning and no end — monotonous tunnels of units of accommodation to left and to right. How can such an environment be beautiful? Lost is the feeling of belonging and pride of ownership, the whole is too vast. It is all out of scale. An important principle in architecture is that everything should be related to the human scale.

Naturally we cannot build an estate today with pleasant village greens dotted about, but we can build our streets in scale in just the same way by using short culs-de-sac; the latest jargon for this is 'cluster development.' The principle is an estate road off which—on either side—are built short culs-de-sac with about a dozen houses in each. The front gardens are left open and fully landscaped, so that, although there is individual ownership, the whole can be enjoyed by everyone. With the houses blending, and the open gardens taking the place of the village green, the scale is right and the whole picture can be fully encompassed by the human eye. A beautiful picture must always be hung in the correct sized frame.

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On this basis Tricosal, which waterproofs a cubic yard of 1 : 2 : 4 concrete for only 7/-, is the most economical as well as the most efficient additive. It waterproofs integrally and, being a liquid, mixes with the gauging fluid and is evenly distributed throughout the mix.

INTEGRAL CEMENT
TRICOSAL
HARDENER-PROOFER

Tricosal is now available in non-returnable containers

For 30 years or more Tricosal has been specified by leading Architects not only for waterproofing but for hardening cement and concrete and increasing their resistance to oils and acids. Send for Information Leaflet No. 1.

★ *OSAL is the generic name for the products of A. A. Byrd & Co. Ltd.—" Florosal " for Surface Hardening and protection of Concrete, Stone and Cement—" Neocosal " for Surface Waterproofing of Brick, Concrete and Stone, and " Tricosal ". Literature on each individual product is available from*

A. A. BYRD & CO. LTD. (Dept BI) 210 TERMINAL HOUSE, GROSVENOR GARDENS, LONDON, S.W.1.
Phone : SLOane 5236 Grams : Byrdicom, Wesphone, London · Works : Basingstoke, Hants.

Privacy to each house can be provided at the rear or side. An obvious advantage for a builder in this type of layout is that he can have bungalows in one cul-de-sac, houses in another—he can sell out a cluster before he commences work, surely an advantage for continuity of production. He will not be fouling any design principles that I know of—each little cluster is its own little village. One word of warning I might give—roof lines must be constant and façades must be simple. If they are not and all sorts of adornments are added to the individual houses the result will be unfortunate.

There is nothing fussy about a village green, or the houses around it—just a few matured trees, grass and the mellow buildings. It is this lesson of simplicity and scale that we can adapt from the past. It is perhaps just one of the clues we seek in order that we can appreciate a good aesthetic standard for house-builders. But no one should be misled into thinking that it is easy. The simpler a building is the harder it is to design—for to make it beautiful correct proportions and scale are vital.

Housing Progress Report

Increase in Completions During First Quarter of 1960

THE HOUSING PROGRESS REPORTS presented to Parliament as White Papers* by the Minister of Housing and Local Government and the Secretary of State for Scotland show that the number of permanent houses completed in Great Britain during March was 24,953 compared with 23,627 in March, 1959. In the first three months of 1960, 66,476 permanent houses were completed compared with 60,669 in the same period of 1959. Detailed figures at the end of March were:—

PERMANENT HOUSES AND FLATS COMPLETED

	Great Britain			England and Wales		
	Post-war total to March 31, 1960	Completions in March	Completions in 1960 to March 31	Post-war total to March 31, 1960	Completions in March	Completions in 1960 to March 31
By Public Authorities:						
Local authorities† ...	2,290,870	11,566	20,233	1,947,865	10,087	25,200
Housing associations ...	44,583	229	385	43,149	229	385
Government depts. ...	76,533	317	567	68,454	163	413
Total	2,411,986	12,112	31,185	2,059,468	10,479	25,998
By Private Builders ...	1,046,824	12,841	35,291	1,011,436	11,665	33,615
Total	3,458,810	24,953	66,476	3,070,904	22,144	59,613

PERMANENT HOUSES AND FLATS UNDER CONSTRUCTION

	Great Britain			England and Wales		
	Under construction at Mar. 31, 1960	Under construction at Dec. 31, 1959	Under construction at Sept. 30, 1959	Under construction at Mar. 31, 1960	Under construction at Dec. 31, 1959	Under construction at Sept. 30, 1959
By Public Authorities:						
Local authorities† ...	142,515	148,663	149,576	117,966	122,572	123,380
Housing associations ...	1,628	1,781	1,574	1,626	1,779	1,572
Government depts. ...	3,898	3,532	3,050	3,621	3,228	2,742
Total	148,041	153,976	154,200	123,213	127,579	127,694
By Private Builders ...	118,621	112,656	115,995	114,007	108,298	111,985
Total	266,662	266,632	270,195	237,220	235,877	239,679

† In Scotland includes houses built or being built by Scottish Special Housing Association.

CLEARANCE OF UNFIT AND OTHER HOUSES: ENGLAND AND WALES

	First quarter, 1960	1959	Total since April 1, 1945
Number of Houses:			
In clearance areas submitted ...	9,511	45,104	—
In clearance orders confirmed ...	2,897	9,222	47,915
In compulsory purchase orders confirmed ...	8,234	29,227	132,320
Demolished or closed ...	‡	59,663	321,118§
Number of Persons:			
In clearance areas submitted ...	28,516	130,251	—
In clearance orders confirmed ...	8,451	25,334	131,627
In compulsory purchase orders confirmed ...	23,462	91,399	411,266
Moved from houses demolished or closed ...	‡	154,853	977,794§

* Cmd. 1016. Housing Return for England and Wales, HMSO, price 9d. Post-free 11d.
* Cmd. 1014. Housing Return for Scotland, HMSO, price 1/3. Post-free 1/5.
‡ Not yet available.
§ To December, 1959.

Advantages of Warm-Air Heating

Low Initial Cost and Freedom from Stuffiness Claimed

'IF THERE is a major advantage that could be provided to improve house construction and living conditions, it is the inclusion of adequate heating in the hundreds of thousands of new homes that are being built in Britain this year, next year, and for years to come.'

This was stated by MR. ROBERT BARR, president of Barlin-Scott Manufacturing Co. Ltd., in a talk on 'Canadian Warm-air Central Heating' which he gave to architects at a discussion meeting at the Building Centre, London, on March 29.

'In Canada,' said Mr. Barr, 'warm air outsells all other forms of central heating equipment in the ratio of 85 per cent to 15 per cent. There must be a reason. Not the least of the advantages of warm air is its lower initial cost. It can be installed at approximately half the cost of its only real competitor, hot-water radiators—commonly referred to as "wet heat."'

Speed and relative ease of installation were a further advantage—4 in. ducting was laid in the foundations of new houses and 'tied down' in the concrete; in old houses it was often necessary to use square trunking, running it along the wall-tops and blowing the heat down.

Continuous air circulation, winter and summer, eliminated stratification and any unpleasant stuffiness. Induced humidification was unlikely to be needed often in British conditions, but automatic humidification could be produced with a warm-air system at little extra cost.

In the case of the Barlin-Scott equipment (now marketed in Britain by Lincoln Furnaces Ltd.) a thermostat which was usually fixed in the wall of the living room, gave an immediate response to a call for more heat. The 50,000-BTU furnace, which had been found to be most suited to British homes, operated on the 'Twin Air' principle—'the greatest innovation since the introduction of oil and gas firing'—a patented device whereby the fan speed increased or reduced with the height of the flame. This was governed by the temperature setting on the thermostat.

Another important consideration was that windows in Britain were predominantly of the casement type, which were often very draughty. This could be overcome by having a return-air duct, 4 in. diameter, taking in air from outside the house. Thus more air was taken in by the furnace than it normally circulated, causing a slightly pressurised condition inside the house and forcing the draughts out. It was estimated that this method would add only about 5 per cent to fuel consumption.

In new houses the positioning of the warm-air diffusers under windows, in the floor, provided perimeter heating of the entire area.

Noise was sometimes mentioned as being a nuisance, but it was only a background noise, and people very soon learned to live with it. The 50,000-BTU furnace had a vaporising burner, and there was absolutely no smell of oil.

THE BUILDER CURRENT PRICES

THE information given on these pages has been specially compiled for *The Builder* and is copyright. It is the intention that the details given should indicate fair average prices of materials, not necessarily the highest or the lowest. The prices apply to large quantities of materials loaded at works, delivered at London Stations or at site in London Area as stated. Prices for smaller quantities ex merchant's warehouse will necessarily be higher so as to include the stocking and handling costs involved. It is recommended that the prices of materials should be confirmed by inquiry from suppliers and merchants.

AGGREGATES AND SAND

Delivered site in full lorry loads. Average of prices for Boroughs of Westminster, Paddington, Holborn and St. Pancras.

		£	s.	d.
Pit Ballast	per yd.	1	5	5
Pit Sand	"	1	3	8
Washed Sand	"	1	6	9
¾ in. Shingle	"	1	4	3
¾ in. Broken Brick	"	1	0	9
Pan Breeze	"	1	0	6
Fine or Coarse Foamed Slag Aggregate	per ton	3	8	0

2 yds. of fine and 2.6 yds. of coarse per ton.

CEMENT, etc.

Including non-returnable jute sacks or paper bags.

Best British Portland Cement. Standard Specification delivered Charing Cross area.

		£	s.	d.
6-ton loads and upwards, site	per ton	5	10	0
1 to 6 tons, site	"	6	2	0
Rapid-Hardening Cement in 6-ton loads and upwards to site	"	6	0	6
1 to 6 tons do. site	"	6	12	6

Aquacrete Water Repellent Cement. 32s. 6d. per ton on ordinary cement prices.

Sulphate Resisting Cement. 32s. 6d. per ton on ordinary cement prices.

Red, Buff or Khaki Colorcrete in 6-ton lots	"	8	10	0

Other colours according to colour.

In 4-ton lots from 308s. 0d. to 778s. 0d. per ton.

White Portland Cement	"	13	15	6
Under 1 ton	per cwt.		16	9
417 Cement (Ultra Rapid Hardening) in 6-ton lots and upwards	per ton	7	2	6

Super Cement (Waterproof), 32s. 6d. per ton above Portland Cement.

Cullamix Tyrolean Finish, £11 8s. 0d. to £14 3s. 0d. (1-ton loads and upwards.)

Lightning and Ciment Fondu Brands High Aluminous cement, 6-ton lots and up	"	15	14	6
Stourbridge Fireclay, 6-ton loads at Railway Depot, London	"	6	19	0
Stourbridge Fireclay, 6-ton loads (London sites)	"	7	7	0
Moler Mortar Powder for Flue Bricks (London sites)	per cwt.	1	10	0

BRICKS

Full Loads.

		£	s.	d.
First Hard Stocks	per 1,000	15	19	6
Second Hard Stocks	"	14	3	6
Mild Stocks (Kiln Burnt)	"	10	5	0
Mild Stocks	"	10	0	0

All loaded free into lorry at the works. The question of haulage is still very difficult and prices must be obtained from job to job.

2½ in. Nominal Fletton Bricks to sites in W.C. district:

Commons	"	5	18	0
Cellular Commons	"	5	18	0
Keyed do.	"	6	0	0
Rustics	"	7	10	0
Cellular Rustics	"	7	10	0
Single Bullnose Commons	"	7	12	6
Sandfaced	"	8	10	0
Tuscans	"	9	5	0
Saxons	"	9	13	0
Golden Buffs	"	10	0	0
Dapple Light Facings	"	10	7	6
Heather Facings	"	10	3	0
Best Blue Pressed Staffs (London stations)	"	30	12	6
do. do. (London sites)	"	30	14	0
do. Bullnose (London stations)	"	31	11	6
do. do. (London sites)	"	31	13	0
Blue Wire Cuts (London stations)	"	27	5	0
do. do. (London sites)	"	27	6	6
Midhurst Lime Bricks (London sites)	"	11	0	6
Uxbridge Whites (London sites)	"	10	19	0
Special Purpose Sandlime Bricks (London sites)	"	8	12	0
Best Stourbridge Fire Bricks:				
2½ in. (London stations)	"	30	12	3
2½ in. (London sites)	"	31	1	0
3 in. (London stations)	per 1,000	36	14	9
3 in. (London sites)	"	37	5	3
2½ in. Moler Flue Bricks (London sites)	"	31	10	0
2½ in. Machine-made Sandfaced Red Facings (London sites)	"	17	7	6
2½ in. Machine-made Multi Red Facings (London sites)	"	17	12	6
2½ in. Hand-made Sandfaced Red Facings (London sites)	"	18	17	6
2½ in. Hand-made Sandfaced Multi-Colour Facings (London sites)	"	18	17	6
Hand-made Sandfaced Cherry Red Facings, Berkshire district (London sites)	"	19	13	0
Hand-made Sandfaced Multi-Colour Facings, Berkshire district (London sites)	"	19	13	0
Rubber Bricks for gauged arches (London sites)	"	49	1	3
2½ in. Surrey Clamp Burnt Multi Stock Facings (London sites)	"	15	6	6
2½ in. Surrey Kiln Burnt Multi Stock Facings (London sites)	"	16	7	0
Glazed Bricks (London sites), White, Ivory, Brown:				
Stretchers	"	64	0	0
Headers	"	63	0	0
Quoins, Bullnose and 4½ in. Flats	"	80	0	0
Double Stretchers	"	85	0	0
Double Headers	"	77	10	0
One side and two ends	"	87	0	0
Two sides and one end	"	89	10	0
Splays and Squints	"	83	0	0

Cream and Buff, £3 extra over White. Other colours, hard glaze, £8 10s. 0d extra over White. All above prices plus 32½% for Best quality and plus 32½% less 10% for Second quality.

PARTITION SLABS, etc.

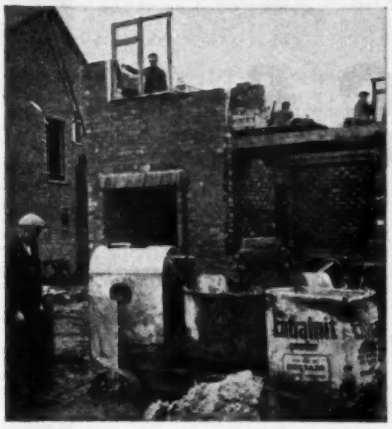
Delivered Central London Area. (W.C. District.)

Hollow Clay Partition Blocks (Keyed)				
Minimum lorry loads		£	s.	d.
*2½ in. 140 yds.	per yd. sup.		4	5
Building Blocks (Keyed)				
*3 in. (6 cavity) 110 yds.	"		5	5
*4 in. (6 cavity) 90 yds.	"		6	10
6 in. (8¾ in. × 5⅝ in.) 1,250 blocks	per 1,000	26	18	0

* Half blocks at no extra charge.

Clinker Concrete				
2 in. 100 yds.	per yd. sup.		3	9
2½ in. 85 yds.	"		4	4
3 in. 75 yds.	"		5	3
4 in. 55 yds.	"		6	5
Cranham Terra Cotta				
2 in.	"		6	9
2½ in.	"		7	9
3 in. Load bearing quality	"		8	9
4 in. do. do.	"		10	9
Moler Partition Blocks				
2 in. 150 yds.	"		11	3
2½ in. 120 yds.	"		14	0
3 in. 100 yds.	"		15	0
4 in. 90 yds.	"		17	0
Lightweight Concrete Building and Partition blocks of Various Sources of Manufacture				
2 in. 100 yds.	per yd. sup.		5	4
2½ in. 80 yds.	"		6	5
3 in. 65 yds.	"		7	5
4 in. 50 yds.	"		9	4
4½ in. 44 yds.	"		10	2
6 in. 33 yds.	"		13	5
Thermalite-Ytong Partition Blocks				
2½ in. 144 yds.	"		7	0
Thermalite-Ytong Load-Bearing Insulating Blocks				
3 in. 120 yds.	per yd. sup.		8	5
4 in. 90 yds.	"		11	0
5 in. 72 yds.	"		13	9
6 in. 60 yds.	"		16	6
8½ in. 42 yds.	"	1	3	8
Floor Blocks and Filler Tiles				
Floor Blocks 12 in. × 12 in. delivered in full lorry-loads:				
3 in.	per 1,000	34	1	0
4 in.	"	36	10	0
5 in.	"	43	15	0
6 in.	"	49	19	0
7 in.	"	61	8	0
8 in.	"	71	19	0
9 in.	"	79	3	0
10 in.	"	87	15	0
Filler Tiles in multiples of 10 tiles per 1,000 multiples:				
12 in. × 3 in. × ⅝ in.	"	42	15	0
12 in. × 4 in. × ⅝ in.	"	73	15	0
10 in. × 5 in. × ⅝ in.	"	73	15	0

3 North Western builders change to Entrainit



At Wilmslow—Messrs. D. Stewart are building 32 houses with ENTRAINIT. Previously they used another plasticiser but changed to ENTRAINIT because *it saved more money!*

At Sale—another builder who had always used a liquid plasticiser, has proved on this site that ENTRAINIT not only costs less but produces *better mortar!*

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Hundreds of builders prove Entrainit saves more money!

It's the powder plasticiser that outdates all others!

More facts about Entrainit

Entrainit is a powder. You add it straight to the mixer with the special scoop supplied—no stock solution to mix, no splashing, no wastage.

Entrainit comes in handy 28 lb. boxes which are easy to store and can be carried to any part of the site—no drums to pay a deposit on, or return.

Entrainit gives you almost instant dispersal throughout the mix. You get a completely consistent and uniform mix. Mortar made with ENTRAINIT is fattier, more workable, produces well-filled joints and gives a smooth durable finish.

Entrainit is 50% cheaper than liquid admixtures—1 ounce is required for 1 cwt. of cement and the maximum cost is only 3d. per ounce.

Change to Entrainit and save money on every mix!

Obtainable from Builders' Merchants!

For further details about ENTRAINIT fill in and post this coupon to:

Bulk Products Division, Thomas Hedley & Co. Ltd, Newcastle upon Tyne 3.

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WARDS for Plant Hire

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(Covering all Scotland)
18/24 Fore Street, Scotstoun.
Phone:- Scotstoun 8083

SHEFFIELD
Albion Works, Sheffield
Phone:- 26311

COVENTRY
Bayton Rd., Exhall, Coventry
Phone:- Bedworth, 3011/2088

BRITON FERRY
Giant's Wharf, Briton Ferry, Glam.
Phone:- 3166/7

LONDON
Brettenham House, Strand, W.C.2.
Phone:- TEMple Bar 1515

GRAYS
Titan Works, Grays (Essex)
Phone:- Grays Thurrock 4764/4806

TWW

THOS. W. WARD LTD

LC87

STONEWARE DRAIN PIPES, etc.

The following are the percentages to be added to the Revised Standard List (Nov., 1956) prices delivered London Area.
Delivered ex Merchants Wharf or Depot.

	Over 2 tons	Over 100 pieces Under 2 tons	Under 100 pieces Under 2 tons
Best Quality ...	−10%	+5%	+12½%
BSS Best Quality...	+10% −10%	+10% +5%	+10% +12½%
Tested Quality ...	+37½% −10%	+37½% +5%	+37½% +12½%
BSS Tested Quality	+47½% −10%	+47½% +5%	+47½% +12½%

		£	s.	d.
3 in. Land Drain Pipes (in 12 in. lengths)	per 1,000	11	18	6
4 in. do. do.	,,	15	19	6
6 in. do. do.	,,	32	19	0
9 in. do. do.	,,	62	9	0

DAMP COURSE

		£	s.	d.
Hessian base bitumen 7 lb. per yd. sup. in 24 ft. rolls cut to wall widths in lots of £6 value and over delivered London area	per yd. sup.		3	2
Asbestos base do. 7 lb. per yd. sup. do. do.	,,		5	2
Lead lined bitumen do. 9¼ lb. per yd. sup. do. do.	,,		12	2
18 in. × 9 in. British damp course slates	per 1,000	43	8	11
14 in. × 9 in. do. do.	,,	32	8	2
9 in. × 9 in. do. do.	,,	18	18	9
18 in. × 4½ in. do. do.	,,	19	19	9
14 in. × 4½ in. do. do.	,,	15	18	3
9 in. × 4½ in. do. do.	,,	10	14	3

STONE

		£	s.	d.
Bath Stone				
Monks Park	per ft. cube		10	3
St. Aldhelm Box Ground	,,		11	6
Delivered in railway trucks at South Lambeth B.R. Western Region.				
Doulting Stone Random Blocks. Delivered London area	,,		10	10
Beer Stone. Delivered London area	,,		10	6
Portland Stone—				
Brown Whitbed in random blocks, 25 ft. average delivered in railway trucks at Nine Elms, B.R. Southern Region	,,		9	10
Yorkshire Stone—Blue Robin Hood Quality. Delivered to site London in 6-ton lots.				
9 in. × 3 in. Rubbed, weathered, throated and stolled cills	per ft. cube	4	5	10
12 in. × 6 in. do. do. do.	,,	3	1	2
12 in. × 3 in. Plain coping, twice throated	,,	2	7	6
12 in. × 3 in. Weathered and twice throated coping	,,	3	3	3
14 in. × 6 in. do. do. do.	,,	2	17	0
4½ in. × 9 in. Plinth rubbed on top and face ...	,,	2	11	0
3 in. sawn two sides Slabs, random sizes ...	per ft. sup.		9	1
Templates and Cover Stones, 3 in., 4 in. and 6 in. thick, edges coped for rendered brickwork ...	per ft. cube	1	11	3
do. do. fair one edge for fair faced brickwork	,,	1	17	0
Hard York—				
12 in. × 2 in. Square Steps, rubbed on top and edge	per ft. run		11	0
14 in. × 3 in. Round-nosed Steps, rubbed on top and front	per ft. cube	2	18	3
12 in. × 6 in. Plain Steps, rubbed top and front	,,	2	11	0
2 in. Rubbed and Jointed Paving, given sizes ...	per ft. sup.		10	3
2 in. Sawn Paving, edges squared, in random sizes	per yd. sup.	3	12	0

TILES AND PANTILES

Delivered London area by road in 6 tons or over per 1,000.

	£	s.	d.
Machine-made Pantiles and French pattern Tiles from Lincolnshire district	29	19	0
Hand-made Pantiles Berkshire district	55	18	0
Hand-made Double Roman Bridgwater district ...	64	4	1
Hand-made 10½ × 6½ tiles Berkshire district	15	18	3
Machine-made 10½ × 6½ Staffordshire district	15	2	6
Hand-made Hip and Valley tiles per doz.	1	11	10
Machine-made Hip and Valley tiles do.	1	10	1
Concrete tiles 10½ × 6½	8	10	0
do. Interlocking (49S)	19	16	6

NOTE.—Breakage in transit, purchasers' responsibility.

SLATES

First-quality Slates from Penrhyn or Portmadoc, carriage paid in full truck loads to London Rate station. Per 1,000 actual.

	£	s.	d.
24 × 12	150	19	7
22 × 12	122	14	2
22 × 11	110	16	4
20 × 12	103	19	1
20 × 10	99	11	6
18 × 10	69	2	6
18 × 9	60	11	9
16 × 10	54	8	10
16 × 8	42	12	4

NOTE.– Breakage in transit, purchasers' responsibility.

TIMBER

				£	s.	d.
Softwood		Ex Wharf	per standard	£115 to £140		
Joinery quality		do.	,,	£94 — £98		
Carcassing quality		do.	,,	£110	0	0
1 in. Tongued and Grooved Flooring		do.	,,			
Hardwood						
Mahogany—	African S.E.	do.	per ft. cube	1	10	0
do.	Honduras S.E.	do.	,,	3	5	0
Oak	European S.E.	do.	,,	2	10	0
do.	Japanese S.E.	do.	,,	3	0	0
do.	English Logs sawn ...	do.	,,	2	0	0
Teak	8 in. average S.E. ...	do.	,,	3	17	6
Walnut	African Logs sawn ...	do.	,,	1	2	6

DOORS (in Lots I–II)

Delivered London area.

		£	s.	d.
1½ in. 4 Horizontal Panel. Pattern 4 in. deal				
2 ft. 0 in. × 6 ft. 6 in.	each	1	16	0
2 ft. 3 in. × 6 ft. 6 in.	,,	1	17	6
2 ft. 6 in. × 6 ft. 6 in.	,,	1	18	6
2 ft. 9 in. × 6 ft. 6 in.	,,	2	0	6
2 in. do. but top panel open. Pattern 4 × G in deal				
2 ft. 6 in. × 6 ft. 6 in.	,,	2	9	0
2 ft. 9 in. × 6 ft. 6 in.	,,	2	11	6
2 in. 2 Panel top panel open. Pattern 2 × G in deal				
2 ft. 6 in. × 6 ft. 6 in.	,,	2	3	0
2 ft. 9 in. × 6 ft. 6 in.	,,	2	5	0

SUNDRIES

Delivered London area.

		£	s.	d.
1 in. Wood Wool Slabs 6 ft. 0 in. × 2 ft. 0 in. in quantities of 1 ton (89 yds. to 1 ton)	per yd.		6	2
1½ in. do. (67 yds. to 1 ton)	,,		8	0
2 in. do. (52 yds. to 1 ton)	,,		9	9½
2½ in. do. (45 yds. to 1 ton)	,,		11	3
3 in. do. (39 yds. to 1 ton)	,,		12	7½
Quantities under 1 ton add 1d. per ½ in. of thickness.				
½ in. imported insulation Board, quantities over 5,000 sq. ft.	per 100 sq. ft.	2	2	6
⅛ in. Hardboard do.	,,	1	17	6
3/16 in. do. do.	,,	2	4	6
1/16 in. Asbestos Flat Building Sheets	per yd. sup.		4	3½
¼ in. do. do. do.	,,		6	0
Roofing Felt 1-ply	,,		1	9
do. 2-ply	,,		2	2½
Best Scotch Glue in slabs	per ½ cwt.	5	8	0
do. pearl	,,	5	8	0
Croid Glue	28 lb.	2	6	0
Cut Nails 3 in. (1-ton lots)	per ton	78	10	0
do. 4 in. and up (1-ton lots)	,,	75	0	0
Wire Nails 3 in. (4-cwt. lots)	per cwt.	3	13	5
do. 4 in. and up (4-cwt. lots)	,,	3	12	10

METALS

STEEL JOIST, ETC.

		£	s.	d.
Basis Joists— 6 in. × 5 in., 8 in. × 5 in., 8 in. × 6 in., 10 in. × 6 in., 12 in. × 6 in., plain cut to lengths delivered London area	per ton	47	15	0
Extra for sizes				
3 in. × 1½ in. 4 in. × 1¾ in.	,,	3	10	0
3 in. × 3 in.	,,	2	10	0
4 in. × 3 in.	,,	2	5	0
10 in. × 4½ in.	,,	1	10	0
5 in. × 2½ in. 5 in. × 3 in.	,,	1	15	0
4¾ in. × 1¾ in.	,,	3	5	0
5 in. × 4½ in. 7 in. × 3½ in. 13 in. × 5 in. ...	,,		15	0
6 in. × 3 in. 24 in. × 7½ in.	,,	2	0	0
6 in. × 4½ in. 7 in. × 4 in. 8 in. × 4 in.	,,	1	5	0
9 in. × 4 in. 10 in. × 5 in.				
12 in. × 5 in. 22 in. × 7 in.	,,	1	0	0
9 in. × 7 in. 10 in. × 8 in. 12 in. × 8 in.				
14 in. × 5½ in. 14 in. × 6 in. 14 in. × 8 in.				
15 in. × 5 in. 15 in. × 6 in. 16 in. × 6 in.	,,		10	0
16 in. × 8 in. 18 in. × 6 in. 18 in. × 7 in.				
18 in. × 8 in. 20 in. × 6½ in. 20 in. × 7½ in.				
Steel angles average price	,,	48	15	0
Steel tees average price	,,	49	15	0
Fabricated work delivered London—				
R.S. Joists cut and fitted	,,	64	15	0
Compound girders	,,	69	5	0
Stanchions	,,	74	15	0
Compound stanchions	,,	79	5	0
In Roof Work—Trusses and Purlins	,,	89	0	0
Average prices not for awkward work.				
Angle cleats and ⅝ in., ¾ in. and ⅞ in. bolts average price London area	per cwt.	5	10	0

FERRO-CONCRETE BARS

		£	s.	d.
Mild Steel Ferro-Concrete bars British manufacture to BSS785 ex London Stock 1 in. diam., and upwards	per ton	49	10	0
¾ in. diam.	per ton extra	8	12	6
11/16 in. do.	,,	6	12	6
⅝ in. do.	,,	4	12	6
½ in. do.	,,	3	2	6
⅜ in. do.	,,	1	10	0
¼ in. and ⅜ in. diam.	,,		15	0

MILD STEEL TUBE

Tubes to BSS 1387—1957 and Fittings. *Revised* list prices and following discounts :

Galvanised Tube—	Under 1 ton	Over 1 ton	W.I. Fittings	Malleable Fittings
Light	−39½%	−41%	Light −26½%	Malleable List
Medium	−35½%	−37%	Heavy −22½%	−23% + 40%
Heavy	−27½%	−29½%		
Black—				
Light	−50%	−51½%	Light −32½%	Malleable List
Medium	−46%	−47½%	Heavy −28½%	−23%
Heavy	−38½%	−40%		

C.I. HALF-ROUND GUTTER

Delivered London per yd. in 6 ft. lengths.

	Gutters	Nozzles	Stop Ends
3 in.	4/0½	3/7	1/-
3½ in.	4/4½	3/1	1/-
4 in.	5/8	4/5	1/7
4½ in.	6/3	4/11	1/1
5 in.	6/11½	5/4	2/2

METALS—*continued*

C.I.O.G. Gutters

Per yd. in 6-ft. lengths :	Gutters	Nozzle	Stop Ends
3 in.	5/2½	4/8	1/3
3½ in.	5/10	4/8	1/7
4 in.	6/5	4/11	1/10
4½ in.	6/11½	5/8	2/2
5 in.	7/7½	6/5	2/6

C.I. Rain-Water Pipes

	Pipe	Bends	Branches
2 in.	8/7½	4/5	6/4
2½ in.	8/7½	4/11	8/6
3 in.	9/8½	6/2	9/2
3½ in.	11/0½	7/3	11/–
4 in.	12/9	8/9	13/1

L.C.C. Coated Soil Pipe

2 in.	9/8½	7/7	9/2
2½ in.	10/4	8/5	11/5
3 in.	11/7	9/2	13/7
3½ in.	12/11½	11/5	15/10
4 in.	14/9	12/9	18/8

Above prices for gutters, rain-water and soil pipes for under 5-cwt. lots. only. Lots over 5 cwt. see List No. 3300, dated February 1, 1955, plus 25% and tonnage allowance. 4-ton lots 5%, 2-ton lots 2½%.

L.C.C. Coated Drain Pipes

In 9-fts.:	cwt. qt. lb.	Per yd.	Bends	Branches
4 in.	1 1 17	35/3	23/9	42/–
6 in.	2 0 1	51/7	63/9	101/–

Asbestos Rain-Water Pipes and Fittings

All less 17½% discount.		2 in.	2½ in.	3 in.	4 in.
Pipes, 6-ft. lengths ...	... per yd.	4/7	4/10½	5/11	7/10
Shoes	... each	3/–	3/3	3/10	5/2
Single Branches ...	... „	4/8	5/6	6/7	9/2
Bends, square or obtuse ...	„	3/3	3/7	4/8	6/7
Swan Necks, 4½ in. proj....	„	3/7	4/8	5/2	7/3
do. 6 in do....	„	3/10	5/2	5/10	7/10

Asbestos O.G. Gutters and Fittings

		4 in.	4½ in.	5 in.	6 in.
Gutters, 6-ft. lengths	... per yd.	4/4	4/9½	5/9	6/10½
Drop ends	each	3/6	4/–	4/9	5/5
Stop ends	„	1/1	1/2	1/3	1/5
Angles	„	3/7	4/1	5/–	5/10
Nozzles	„	3/6	4/–	4/9	5/–
Union Clips	„	1/9	2/1	2/6	2/11

Asbestos Half-Round Gutters and Fittings

	per	3 in.	4 in.	4½ in.	5 in.	6 in.
Gutters, 6-ft. lengths	yd.	3/0½	3/7½	3/8½	4/4½	6/1
Drop ends	each	2/6	3/–	3/3	3/7	5/2
Stop ends	„	1/–	1/1	1/2	1/3	1/5
Angles	„	2/10	3/3	3/7	3/10	5/2
Nozzles	„	2/6	3/–	3/3	3/7	5/2
Union Clips	„	1/3	1/4	1/5	1/7	2/5

	Per ton basis in London £ s. d.
Iron—Staffordshire Crown Merchant Quality	52 17 6
Mild Steel Bars	47 8 6
Mild Steel Hoops	49 0 0

	Ex Merchant's Stock per ton Two-ton lots £ s. d.
Soft Sheets C.R. and C.A.—	
20 gauge	62 7 6
24 gauge	64 17 6
26 gauge	67 17 6
Galvanised Corrguated Sheets, 6-ft. to 9-ft. —	
20 gauge	70 18 0
24 gauge	74 8 0
26 gauge	79 13 0
Galvanised Flat Sheets C.R. and C.A. :	
20 gauge	72 8 0
24 gauge	75 18 0
26 gauge	81 3 0

ALUMINIUM AND ALUMINIUM ALLOYS

(Base Prices)		£ s. d.
Sheet BS 1740 S1C 18 SWG (36 in. wide)... ...	per lb.	3 0
Sheet BS 1470 NS3 Utility 18 SWG (36 in. wide)	„	2 11
Coiled strip BS 1470 S1C 18 SWG (24 in. wide)	„	2 11
Coiled strip BS 1470 NS3 Utility 18 SWG (24 in. wide)	„	2 10½
Coiled strip for flashing, high purity, 22 SWG (12 in wide)	„	3 1½
Corrugated sheet BS 1470 NS3 Circular Profile 8 ft. × 32 in. × 20 SWG	per sheet	1 13 6
Corrugated sheet BS 1470 NS3 Industrial Profile 8 ft. × 31¾ in. × 20 SWG	„	1 19 3
Corrugated sheet BS 1470 NS3 Mansard Profile 8 ft. × 31¾ in. × 20 SWG	„	1 12 7
Extruded section BS 1476 E1C simple moulding	per lb.	2 10
Extruded section BS 1476 E1C 1 in. diam. round	„	2 7½
Extruded section BS 1476 HE10WP simple angle	„	3 1½
Extruded section BS 1476 HE10WP 1 in. diam. round	„	3 0½
Tubing BS 1471 T1C 1½ in. O/D × 20 SWG ...	„	4 6½
Tubing BS 1471 HT19WP 1½ in. O/D × 20 SWG	„	6 0½

PLUMBERS' BRASS WORK, etc.

Delivered in London area.

All per dozen	M.O.H. ½ in.	¾ in.	1 in.	1¼ in.	1½ in.	2 in.
Screwdown bib cocks Crutch head for iron...	87/–	128/–	—	—	—	—
Toilet bib cocks for iron ...	109/–	158/5	—	—	—	—
Screwdown stop cocks for iron	66/–	95/9	188/–	363/–	522/6	917/6
do. with two unions for lead	89/–	132/–	234/4	472/–	623/6	1,389/6
Double nut boiler screws ...	18/8	26/5	47/6	48/6	67/–	93/6
Heavy Croydon ball valves...	77/–	193/6	312/5	568/8	734/10	—
Plumbers' union brass lead to iron	19/6	23/6	38/6	52/10	70/6	165/–
	1¼ in.	1½ in.	2 in.	3 in.	3½ in.	4in.
Caps and Screws	33/–	40/8	59/6	92/5	118/10	155/3
Brass Sleeves	—	31/11	31/11	56/2	74/10	91/5
	1¼ × 6 lb.	1½ × 6 lb.	2 × 7 lb.	3 × 7 lb.		
Lead P. trap with brass cleaning screws	68/6	85/6	137/–	233/9		
Lead S. trap do. do.	82/9	102/9	168/3	302/3		

Solder :			s. d.
Plumbers' ...	1 cwt. lots	320/–	14 lb. lots per lb. 3 7
Tinmen's	„ „	404/–	„ „ „ 4 5
Blow pipe ...	„ „	407/–	„ „ „ 4 6

Copper Tubes and Sheets

Copper tubes BSS 659/1944 on the basic price of 28¾d. per lb plus gauge and manufacturing extras as follows. Minimum quantities, 10 cwt.

	Extra d.	Total per lb. d.	Approx. per ft. d.
⅛ in. × 19 gauge	15½	44½	12
¼ in. × 19 „	13¾	42¾	16½
1 in. × 18 „	12¼	41	25½
1¼ in. × 18 „	11¾	40¾	30½
1½ in. × 18 „	11¾	40¾	36¾
2 in. × 17 „	13¼	42	58¾

Small Quantity extras :—

10 cwts. to 5 cwts.	plus ½d. per lb.
5 cwts. to 2 cwts.	„ 1d. „
2 cwts. to 1 cwt.	„ 2d. „

	£ s. d.
Rolled Copper sheets up to 48 in. wide, basic price plus gauge and manufacturing extras	283 0 0

Zinc

		£ s. d.
Sheet Zinc, 10 gauge (25 SWG), 5 cwt. lots upwards	per cwt.	7 15 3
„ „ 12 gauge (23 SWG), „ „ „	„	7 14 9
„ „ 14 gauge (21 SWG), „ „ „	„	7 13 6

Brass Tubes

Brass tubes, basic price, plus gauge and manufacturing extras	per lb.	1 11⅞

LEAD SHEET AND PIPES

Basis selling price to one address in London or Home Counties :

		£ s. d.
Lead Sheet, English, 3½ lb. substance and upwards	per ton	115 15 0
„ Water Pipe, in coils	„	118 0 0
Lead Soil Pipe, 10 ft. or over 2 in. to 4 in. in dia.	„	119 10 0
„ „ „ over 4 in. dia.	„	121 10 0
„ Gas or Untinned Compo pipe...	„	119 10 0

5 cwt. lots and over less 6d. per cwt. off basic prices.

Extras over Basis for quantities under 5 cwt.:

3 cwt. and under 5 cwt.	per cwt.	4 0
1 cwt. do. 3 cwt.	„	6 0

Smaller quantities than 1 cwt. priced specially.

Supplying sheet lead and lead pipe to less than basis weights and cutting to sizes less than basis charged extra according to current trade schedule.

Allowance for Old Lead, collected, £66 0s. 0d. per ton weighed at buyer's works.

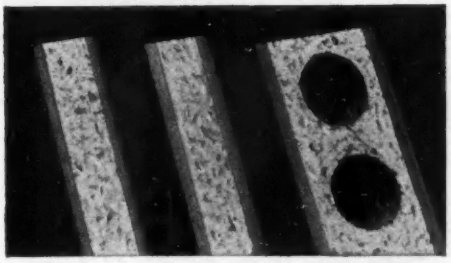
PLASTER, etc.

		£ s. d.
Coarse Pink in 1-ton loads and over delivered on site	per ton	8 4 6
do. White do. do. do.	„	8 14 0
Sirapite Coarse BSS 1191 Class C do.	„	8 15 9
do. Fine do. do. do.	„	9 3 3
do. Browning BSS 1191 Class B do.	„	8 15 9
do. Board Finish do. do.	„	8 15 9
Blue Lias Lime, in 6-ton loads	„	6 14 6
Hydrated Lime (Grey), in 6-ton loads	„	5 10 0
do. (White) do.	„	6 0 0
Lump Lime (Grey) do.	„	5 7 0
do. (White) do.	„	5 14 6
White Keen's or Parian Cement, in 1-ton loads...	„	11 19 3
Pink Keen's or Parian Cement, in 1-ton loads ...	„	11 14 0
Granite Chips, in 6-ton loads	„	2 5 3
Hair	per cwt.	4 17 6
Gypsum Plaster Lath or Base Board, ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	per yd.	2 3½
1,200 yds.	„	2 2½
do. Insulating do. ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	„	2 9
1,200 yds.	„	2 9
Gypsum Plaster Wall Boards, 3 and 4 ft. wide 6 to 12 ft., ⅜ in. thick, 600 yds, and over in one delivery. Delivered site	„	2 6½
1,200 yds.	„	2 5½
do. Insulating do. ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	„	3 0
1,200 yds.	„	3 0

let this board speak for itself..

In three thicknesses 1⅛", ¾" and the popular ⅝"

in 8 ft. x 4 ft. panels



This COMPLETE constructional board is ready for use and immediate decoration. Faced with high density hardboard or hardwood veneers on both sides, it's the answer to so many fabrication problems.

READY TO USE—READY TO DECORATE

Durabord

WOOD CHIPBOARD

Use 'Durabord' and cut building costs—'Durabord' is truly unique—having an EXTRUDED wood chipboard core it provides a tough rigid 'sandwich' of exceptionally stable qualities. Used horizontally or vertically, 'DURABORD' requires little support, thus making it suitable for so many uses including partitioning, kitchen cabinet doors, shelving, window boards, panelling, ceiling trapdoors, etc., etc.

'MELABORD' This admirable Melamine faced board in ½" thicknesses is also available in ⅝", ¾" and 1⅛" thicknesses with 'Durabord' Chipboard construction. A wide variety of wood grains and patterns to delight the eye of your prospective customers.

MERCHANTS EVERYWHERE STOCK 'DURABORD' FOR YOUR IMMEDIATE NEEDS

Manufactured by: **F. HILLS & SONS LTD.**, NORTON ROAD, STOCKTON-ON-TEES. Telephone: 67141

London Office: WINDSOR HOUSE, KINGSWAY, LONDON, W.C.2. Telephone: CHAncery 9251

Telex in operation at both offices

Hills

P4602

Installed more easily than metal or asbestos sheeting—translucent, shatterproof and maintenance-free.

maintenance-free daylight

RILITE glass-fibre sheeting, which can replace all standard sizes of corrugated asbestos or galvanised iron roofing, gives ample daylight at minimum cost. *Low* installation cost, because it is worked with ordinary hand tools and needs no special framing—*NO* maintenance cost because it is shatterproof and impervious to atmospheric conditions.

RILITE is produced with an exceptionally high degree of clarity, and at the same time diffuses the light of the sun.

RILITE
CORRUGATED GLASS FIBRE SHEET

Where fire risks are present it may be advisable to use FIRE-PROTECTIVE F.R. RILITE. This has been tested by the D.S.I.R. in accordance with the requirements of B.S.476 : Part 3 : 1958. It is the *first* glass-fibre sheeting to be graded EXT.S.AA.—*the highest grade recognised by the Standard.*

On Admiralty List.

Please write for descriptive leaflet.

Another RIL *Product* RUBBER IMPROVEMENT LIMITED, WELLINGBOROUGH, NORTHANTS.

RIL 400

PAINTS AND DISTEMPER

Delivered London area.		£	s.	d.
Ceiling Distemper	per cwt.	1	7	6
Washable Distemper	"	5	15	0
Gloss Paint	per gal.	2	16	0
Super Snowcem cement paint (in 1 cwt. drums) ...	per cwt.	4	0	0
LEAD PRODUCTS AND OILS				
Ground White Lead, in 1 cwt. kegs	per cwt.	8	7	6
Genuine White Lead Paint, 1-19 gal. lots in 1 gal. tins	per gal.	3	6	6
Genuine Red Lead, Dry, 1 cwt. keg (10 ton lots)	per cwt.	5	12	6
do. do. do. (1 cwt. lots)	"	6	19	0
Genuine Linseed Oil Putty, 1 cwt. keg	"	2	12	6
Size XD quality 28 lb.	per tin		9	0
Raw Linseed Oil (5 gal.) drums extra	per gal.		19	2
Boiled Linseed Oil (5 gal.) do.	"		20	0
SUNDRIES				
Turpentine substitute (5 gal.) drums extra... ...	"		5	4⅜
do. do. (40 gal.) do.	"		4	8⅜
Solignum, Brown (5 gal. cans) Exterior	"		8	8
Creosote (40 gal. barrels)	"		2	3
Paste Powder (1 lb. packets)	per lb.		2	4
White Lining Paper	per piece		1	2

VARNISHES, etc.

Delivered London area.		£	s.	d.
Oak Varnish, Outside or Inside	per gal.	2	0	0
Oal Pale Copal do. do.	"	2	0	0
Hard Drying Oak for Inside	"	2	5	0
Crystal Paner Varnish do.	"	2	8	0
Eggshell Flat Varnish do.	"	2	2	0
Finest Carriage Varnish	"	2	7	0
Front Door Varnish	"	2	4	0
Japan Gold Size	"	1	12	0
Black Japan	"	1	16	0
Brunswick Black	"	1	12	0
Berlin Black	"	1	10	0
Terebene	"	1	12	0
Knotting (1 gal. bottles free)	"	1	15	0
French and Brush Polish (do.)...	"	1	15	0

GLASS

Delivered London area.		s.	d.
18 oz. Sheet Glass Ordinary Glazing Quality—			
Cut Sizes	per ft. sup.		9½
24 oz. do. do. do. do.	"		11½
26 oz. do. do. do. do.	"	1	2½
32 oz. do. do. do. do.	"	1	6½
¼ in. Rolled Plate	"	1	2½
3/16 in. Rolled and Rough Cast	"	1	5
¼ in. do. do.	"	1	5¾
¼ in. Figured Rolled and Cathedral, Standard patterns—			
White Group 1	per ft. sup.	1	2½
do. Group 2	"	1	8½
do. Standard Tints	"	2	1½
do. Special Tints	"	7	3
¼ in. Pinstripe, Hammerstripe, Reeded, Reedlyte and Luminating Group 3	"	1	7½
¼ in. Wired Cast	"	1	9½
¼ in. Georgian Wired Cast	"	1	9½
Hollow Glass Blocks—			
P.B.2 Cross reeded 5¾ × 5¾ × 3⅞ in. ...	each	3	6
P.B.3 Broad reeded 7¾ × 7¾ × 3⅞ in. ...	"	5	4
P.B.32 Cross reeded 7¾ × 7¾ × 3⅞ in. ...	"	5	4
P.B.4 Prismatic 7¾ × 7¾ × 3⅞ in. ...	"	6	0
P.B.5 Flemish 7¾ × 7¾ × 3⅞ in. ...	"	5	4
P.B.6 Boomerang 7¾ × 7¾ × 3⅞ in. ...	"	6	0
Half Size Blocks—			
P.B.32 Cross reeded 7¾ × 3¾ × 3⅞ in. ...	"	4	6
Radiused Corner Blocks to match up with—			
P.B.2 Cross reeded	"	7	6
P.B.3 Broad reeded...	"	9	0
P.B.32 Cross reeded	"	9	0
P.B.2, P.B.3, P.B.32 are also supplied in Light Diffusing Blocks at same price.			
¼ in. Polished Plate Glass, G.G. quality—			
In plates not exceeding 2 ft. sup.	per ft. sup.	4	7
" " " 5 ft. sup.	"	5	7
" " " 45 ft. sup.	"	6	9
" " " 100 ft. sup.	"	7	4
¼ in. Polished Plate, extra sizes, *i.e.*, plates exceeding 100 ft. sup. or 160 in. one way or 96 in. both ways. G.G. quality—Not exceeding 135 ft. sup. or 240 in. one way or 130 in. both ways ...	"	10	9
Not exceeding 180 ft. sup. or do.	"	14	3

Plates exceeding 180 ft. sup. prices on application.
Substances other than ¼ in. Polished Plate at Special Prices.
Quantity Tariff—Sheet and Sundry Glass.

The following prices apply to minimum quantities of one size and one pattern delivered by the manufacturer to one site at one time.

Description of Glass	Minimum quantity	per ft. sup. s.	d.
18 oz. sheet O.Q.	3,000		6¾
24 oz. " "	2,000		8¾
26 oz. " "	2,000		11
32 oz. " "	2,000	1	2½
¼ in. Rolled Plate	1,000		10¾
¼ in. Figured Rolled and Cathedral Standard Patterns, White Group 1	1,000		10¾
do. Group 2	1,000	1	2
¼ in. Pinstripe, Hammerstripe, Reeded, Luminating and Spotlyte Group 3	1,000	1	2
3/16 in. Rolled Plate or Rough Cast	2,000	1	1
¼ in. do. do.	2,000	1	1¾
¼ in. Wired Cast, Hexagonal	2,000	1	4½
¼ in. Georgian Wired Cast	2,000	1	4½

THE BUILDER RATES OF WAGES

AS FROM APRIL 18, 1960. **(Every endeavour is made to ensure accuracy but we cannot be responsible for errors.)**

KEY TO SCHEDULE OF GRADE RATES.

Grade Classification	A	A1
Craftsmen	4/11½	4/11
Labourers	4/4	4/3½

Town	*Grade*
Aberavon	A
Aberdare	A
Abergavenny	A
Abingdon	A1
Accrington	A
Addlestone	A
Afan Valley	A
Aldeburgh	A1
Aldershot District	A1
Alfreton UD	A
Alnwick UD	A
Altrincham	A
Amble	A
Ambleside	A
Amersham	A
Ammanford	A
Andover	A1
Anglesey, Isle of	A
Ardingly	A1
Arundel	A1
Ascot	A1
Ashbourne RD	A1
Ashbourne UD	A1
Ashby-de-la-Zouch UD	A
Ashby Woulds UD	A
Ashford (Kent)	A1
Ashford (Middlesex)	A
Ashington UD	A
Ashtead	A
Ashton-under-Lyne	A
Aspatria and Brayton	A
Atherstone RD	A
Attleborough	A1
Axminster	A1
Aylesbury	A1
Aylsham	A1
Bagshot	A1
Bakewell UD	A1
Banbury	A1
Bangor	A
Barnard Castle UD	A
Barnoldswick UD	A
Barnsley CB	A
Barnstaple	A1
Barrow-in-Furness	A
Barrow-upon-Soar RD (part Thrussington)	A1
Barry	A
Basford RD (ex. Willough-by-on-the-Wolds A1)	A
Basingstoke	A1
Bath	A
Batley MB	A
Baxterley	A1
Beaconsfield District	A
Bearl	A
Beccles	A1
Bedale RD	A
Bedford	A
Bedlington	A
Bedlingtonshire UD	A
Bedwas	A
Beeston & Stapleford UD	A
Belper UD	A
Belton	A
Berkhamsted	A
Berrington	A
Berwick Borough	A
Beverley MB	A
Bewdley MB	A
Bexhill-on-Sea	A1
Bideford	A1
Biggleswade	A1
Billericay	A
Billing	A
Billingham UD	A
Bilsthorpe	A
Bilston MB	A
Birchington	A1
Birkenhead	*
Birmingham CB	†A
Bishop Auckland UD	A
Bishop's Stortford	A
Bishops Castle MB	A1
Bispham	A
Blackburn	A
Blackpool	A
Blackwell RD	A
Blandford	A1
Blaydon UD	A
Blidworth	A
Blyth B.	A
Bodmin	A1
Bognor Regis	A1
Boldon UD	A
Bolsover UD	A
Bolton	A
Boston MB	A
Bourne End	A
Bournemouth District	A
Brackley MB	A1
Bracknell	A1
Bradford CB	A
Bradford-on-Avon	A1
Braintree	A1
Brandon & Byshottles UD	A
Brecon, Borough of	A1
Breconshire, County of	‡A1
Brent Knoll	A1
Brentwood	A
Bridgend	A
Bridlington MB	A
Bridlington RD	A
Bridgnorth MB	A
Bridgnorth RD	A1
Bridgwater	A1
Brierfield	A
Brighouse MB	A
Brighton & Hove	A
Bristol District	A
Broadstairs	A1
Bromsgrove UD	A
Broughton, Flint	A
Buckfastleigh	A1
Buckingham	A1
Buckley	A
Bungay	A1
Burnham-on-Crouch	A1
Burnham-on-Sea	A1
Burnley	A
Burton-on-Trent CB	A
Bury	A
Bury St. Edmunds	A1
Buxton	A
Byfleet	A1
Caernarvon	A
Caernarvonshire, Cnty. of	‡A
Calder Valley	A
Camberley District	A1
Cambridge	A
Cannock UD	A
Canterbury	A1
Cardiff	A
Cardiganshire, Cnty. of	‡A1
Carlisle	A

CURRENT RATES OF WAGES—Continued

Town	Grade
Carlton UD	A
Carmarthen—Borough of	A
Carmarthenshire, Cnty. of	A
Carnforth	A
Castleford UD	A
Caterham	A
Chapel-en-le-Frith	A
Chard	A1
Charmy Down	A
Chatham District	A
Chatteris	A1
Cheadle (Staffs) RD	A
Chelmsford	A
Cheltenham	A
Chepstow	A
Chertsey	A
Chester	A
Chester-le-Street UD	A
Chesterfield MB	A
Chesterfield RD	A
Chichester	A1
Chipping Norton	A1
Chipping Sodbury	A1
Chippenham (inc. Chippenham Within and Hardenhuish)	A1
Chorley	A
Cirencester	A1
Clacton	A1
Clay Cross UD	A
Cleethorpes MB	A
Clevedon	A1
Cleveleys	A
Clitheroe	A
Coalville UD	A
Cobham (Surrey)	A
Colchester	A
Colne	A
Colwyn Bay	A
Congleton	A
Consett UD	A
Conway	A
Corby UD	A
Cornwall, County of	‡A1
Corsham District	A
Coventry CB	A
Cranbrook	A1
Cranleigh	A1
Cranwell Aerodrome Site	A
Crawley	A
Crewe	A
Crewkerne	A1
Cromer	A1
Crook and Willington UD	A
Crowborough	A1
Cuckfield	A1
Cwmbran	A
Dalton-in-Furness	A
Darlington CB	A
Dartmouth	A1
Darwen	A
Daventry MB	A
Deal	A1
Denbigh Town	A
Derby CB	A
Devizes	A1
Devon, County of	‡A1
Dewsbury CB	A
Didcot	A1
Diss	A1
Doncaster CB	A
Dorchester	A1
Dorking	A
Dorset, County of	A1
Dover	A1
Dovercourt	A
Driffield UD	A1
Drigg & Carleton	A
Droitwich MB	A
Dudley CB	A
Dunstable	A
Durham B	A
Eastbourne	A
E. Glam. & Mon. Val.	A
East Grinstead District	A1
East Kesteven RD	A1
East Retford MB	A
Eastwood (Notts) UD	A
Ebbw Vale & District	A
Edenbridge	A1
Ely	A1
Epping	A
Evesham MB	A1
Exeter	A
Exmouth	A1
Fakenham	A1
Falmouth	A1
Fareham	A
Faversham	A1
Felixstowe	A1
Filey UD	A
Fleetwood	A
Flint MB	A
Folkestone	A1
Frinton	A1
Frome	A1
Gainsborough UD	A
Gateshead CB	A
Gillingham (Dorset)	A1
Gillingham (Kent)	A
Glastonbury & Street	A1
Glossop	A
Gloucester	A
Gloucestershire, Cnty. of	‡A1
Godalming	A1
Goole, MB	A
Goole RD	A
Gosport	A
Grantham MB	A
Gravesend	A
Great Yarmouth	A
Grimsby CB	A
Grimsby RD (part)	A1
Guildford District	A1
Halesowen MB	A
Halifax CB	A
Halstead	A1
Haresfield	A1
Harlow	A
Harpenden	A
Harrogate MB	A
Hartlepool B	A
Harwell	A1
Harwich	A
Haslemere	A1
Hastings	A1
Hatfield (Herts)	A
Havant	A
Haywards Heath	A1
Heanor UD	A
Hemel Hempstead	A
Henley-on-Thames	A1
Hereford	A1
Herefordshire, Cnty. of	‡A1
Herne Bay	A1
Hertford	A
Hexham RD	A
Hexham UD	A
Heysham	A
Heywood	A
Higham Ferrers MB	A
High Wycombe	A
Hinckley UD	A
Hitchin	A
Hoddesdon	A
Holywell	A
Horley	A1
Horncastle UD	A1
Horsham	A1
Horwich	A
Huddersfield CB	A
Hull	A
Hunstanton	A1
Huntington (Staffs)	A
Ilfracombe	A1
Ilkeston MB	A
Ilkley UD	A
Ipswich	A
Isle of Sheppey	A1
Isle of Thanet	A1
Isle of Wight	A1
Jarrow B.	A
Keighley MB	A
Kendal	A
Kenilworth UD	A
Kettering MB	A
Keynsham	A
Kidderminster MB	A
Kingskerswell	A1
King's Lynn	A1
Kingsteignton	A1
Kirkham	A
Knaresborough UD	A
Knutsford	A
Lancaster	A
Leamington MB	A
Leatherhead	A
Leeds CB	A
Leek UD	A
Leicester CB	A
Leighton Buzzard	A1
Leiston	A1
Leominster	A1
Letchworth	A
Lewes	A1
Lichfield MB	A
Lincoln CB	A
Liskeard	A1
Littlehampton	A1
Liverpool	*
Llandudno	A
Llanelly (inc. Llanelly RD)	A
Llanfairechan	A
Llangollen	A
London	*
Long Eaton	A
Looe	A1
Loughborough MB	A
Louth MB	A1
Lowestoft	A
Loxton	A1
Ludlow MB	A1
Ludlow RD	A1
Luton	A
Lyme Regis	A1
Lyneham /Devon)	A1
Lytham	A
Macclesfield	A
Maidenhead	A
Maidstone	A
Maldon (Essex)	A1
Maltby UD	A
Malton UD	A1
Malvern UD	A
Manchester	A
Manningtree	A1
Mansfield MB	A
March	A1
Margate	A1
Market Harborough RD	A1
Market Harborough UD	A
Market Rasen UD	A1
Martock	A1
Maryport	A
Matlock UD	A
Melksham	A1
Melton Mowbray UD	A
Merionethshire	A
Merthyr	A
Mexborough UD	A
Middlesbrough CB	A
Middleton	A
Middlewich	A
Mildenhall	A1
Milford Haven UD	A1
Minehead	A1
Monmouth—Borough of	A
Monmouthshire	A
Morecambe	A
Moreton Valence	A1
Morley	A
Morpeth B	A
Morpeth RD	A
Mundesley	A1
Nantwich	A
Neath & Valley	A
Nelson	A
Newark MB	A
Newbury	A1
Newcastle-upon-Tyne CB	A
Newcastle-under-Lyme	A
New Forest District	A1
Newmarket	A1
Newport, Mon.	A
Newport Pagnell	A1
Newquay	A1
Newton Abbott	A1
Normanton UD	A
Northallerton District	A
Northallerton UD	A
Northampton CB	A
North Shields	A
North Walsham	A1
Northwich	A
Norton Radstock	A1
Norwich	A
Nottingham CB	A
Nuneaton MB	A
Oakham RD	A1
Oakham UD	A1
Okehampton	A1
Oldham	A
Ongar	A
Ormskirk	A
Ossett & Horbury	A
Oswestry	A
Oundle UD	A1
Oxford	A
Oxted	A1
Padstow	A1
Paignton	A1
Par	A1
Pembrokeshire	A
Penmaenmawr	A
Penrith UD	A
Penzance	A1
Peterborough, Soke of (Eastern Regional portion)	A1
Petersfield	A1
Pickering	A
Plymouth	A
Pontefract MB	A
Pontypool & District	A
Pontypridd District	A
Porthcawl	A
Portishead	A
Portland Bill	A1
Portsmouth	A
Port Talbot	A
Preston	A
Princetown	A1
Pudsey MB	A
Pulborough	A1
Radnorshire, County of	‡A1
Ramsgate	A1
Raunds UD	A
Rayleigh	A
Reading	A
Redcar B	A
Redditch UD	A
Redhill & Reigate	A
Rhondda Valley	A
Richmond B (Yorks.)	A
Ripon MB	A
Rochdale	A
Rochester	A
Ross-on-Wye	A1
Rossendale Valley	A
Rotherham CB	A
Royston	A1
Rugby MB	A
Rugeley UD	A1
Rushden UD	A
Saffron Walden	A1
St. Albans	A
St. Austell	A1
St. Helens	A
St. Neots	A1
Salisbury City	A1
Salisbury Plain	A1
Sandy	A1
Sawbridgeworth	A
Saxmundham	A1
Scarborough MB	A
Scunthorpe MB	A
Seaford & Newhaven	A1
Selby UD	A
Sevenoaks	A
Shaftesbury	A1
Sheerness	A1
Sheffield MB	A
Shepton Mallet	A1
Sherborne	A1
Shipley	A
Shoeburyness	A
Shoreham	A
Shrewsbury MB	A
Sirhowy Valleys	A
Sittingbourne	A1
Skegness UD	A1
Skipton UD	A
Sleaford UD	A
Slough, Windsor & Eton District	A
Smethwick CB	†A
Smettisham	A1
Solihull B	A
Somerset, County of	‡A1
Southampton & Eastleigh	A
Southend-on-Sea District	A
Southport	A
South Shields CB	A
Southwold	A1
Spalding UD	A1
Stafford MB	A
Staines	A
Stamford MB	A
Stantonwick	A
Stevenage	A
Stockport	A
Stockton RD	A
Stockton-on-Tees B	A
Stoke-on-Trent CB	A
Stoke Orchard	A1
Stourbridge MB	A
Stouport UD	A
Stowmarket	A1
Stratford-on-Avon MB	A
Stroud (RD Area)	A1
Sunderland CB	A
Sunningdale	A1
Sutton Coldfield MB	A
Swadlincote UD	A
Swaffham	A1
Swanage District	A1
Swansea	A
Swindon District	A
Swinton UD	A
Tamworth MB	A
Taunton	A1
Tavistock	A1
Tenterden	A1
Teignmouth	A1
Tewkesbury	A1
Thames Haven	A
Thetford	A1
Thirsk RD	A
Thorpe Bay	A
Thurrock UDC (including Tilbury, Grays and the area north to Billericay)	A
Todmorden MB	A
Tonbridge	A1
Torquay	A1
Totnes	A1
Tring	A1
Trowbridge	A1
Truro	A1
Tunbridge Wells	A1
Tynemouth CB	A
Ulverston	A
Uppington (Salop)	A1
Uttoxeter RD	A1
Uttoxeter UD	A1
Wakefield CB	A
Wakefield RD	A
Walsall CB	A
Wallsend B	A
Walsden	A
Walton-on-Naze	A1
Ware	A
Warminster	A1
Warrington	A
Warwick MB	A
Wednesbury MB	A
Wellingborough UD	A
Wellington UD	A
Wellington (Somerset)	A1
Wells (Norfolk)	A1
Wells (Somerset)	A1
Welwyn	A
Welwyn Garden City	A
West Bromwich CB	A
Westbury	A1
Westcliff-on-Sea	A
Westerham	A1
West Hartlepool CB	A
Westmorland	A
Weston-super-Mare	A1
Weybridge	A
Weymouth (incl. Portland Bill, excl. Portland Stoneyards)	A1
Whitby UD	A1
Whitby RD	A1
Whitehaven	A
Whitley & Monkseaton UD	A
Whitstable & District	A1
Wickford	A
Widnes	A
Wigan	A
Wigton	A
Wilmslow	A
Wiltshire, County of	‡A1
Wimborne	A1
Wincanton	A1
Winchester	A1
Windermere	A
Wisbech	A1
Witham	A1
Withernsea UD	A
Woking	A1
Wokingham	A1
Wolverhampton CB	A
Wolverton District	A1
Woodbridge	A1
Woodhall Spa UD	A1
Woodstock	A1
Worcester CB	A
Workington	A
Worksop MB	A
Worthing	A1
Wrexham (incl. Cefn)	A
Wroughton	A1
Wylam	A
Wymondham	A1
Yate	A1
Yeovil Borough	A1
York CB	A
Ystalyfera	A

* For Birkenhead, Liverpool and London the rates are :—Craftsmen, 5s. 1d. ; Labourers, 4s. 5½d. In the case of London the rate beyond the 12-mile radius is : Craftsmen, 5s. 0½d. ; Labourers, 4s. 5d. † Plus 4d. per working day. ‡ This is the County rate and applies except where higher grades are stated.

NOTE.—Carpenters and Joiners providing own tools when employed in establishments operating under the Supplementary Rules for Woodworking Factories and Shops receive 2d. per day ; when employed on other building industry work, 4d. per day.

WOMEN'S RATES.—In all districts throughout the country the rate of wages for women engaged in craft processes is 4s. 1d. per hour. Women engaged on work other than craft processes 3s. 9d. per hour.

For Building Trade Wages in Scotland, see page 1029

the advantages of

THERMALITE

Lightweight loadbearing insulating building blocks

in curtain wall construction

Architect: Reginald H. Gallannaugh L.R.I.B.A.
Consulting Engineers: Bylander, Waddell & Partners
Contractors: Tersons Limited.

PETROFINA HOUSE . . . a case in point

In Petrofina House an inner leaf of 4" Thermalite blocks has been used to sill height. A cavity of approximately 2" is provided between it and the curtain wall glazing.

Thermalite, thus employed, more than adequately fulfills the L.C.C. construction bye-laws. It provides a fire resistance superior to that of the 8½ inch brickwork which would be needed to comply otherwise, thereby increasing valuable floor space.

Numerous other advantages are attendant upon its use. Reduced dead loads have enabled all-round structural savings in beam column and foundations; direct fixing of radiators and other internal fittings without plugging has been made possible. Added to these items, and the considerable saving which can be inferred are the improved comfort conditions and reduced fuel costs which automatically follow wherever Thermalite is used.

For further information and samples apply to:

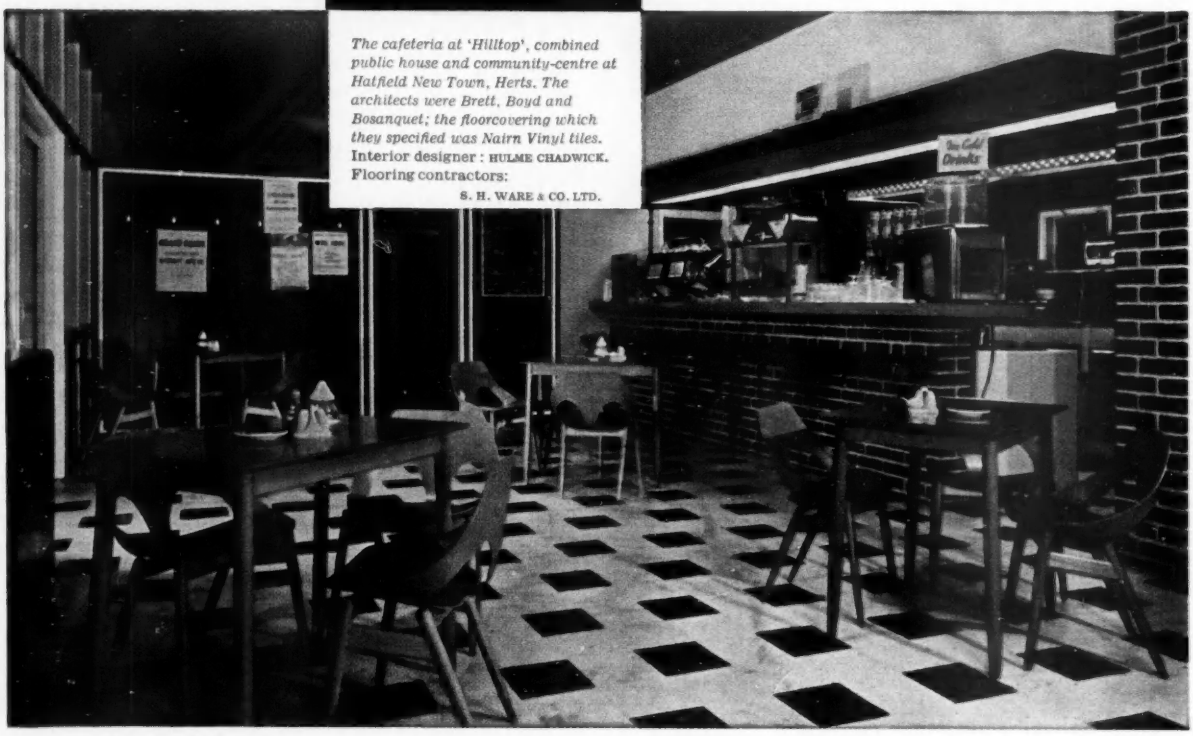
THERMALITE YTONG LIMITED

Hams Hall, Lea Marston, Sutton Coldfield, Warwickshire.
Telephone: Coleshill 2081.

A LAING COMPANY

FOR 'HILLTOP'... 'the most imaginative experiment in licensed trade history'

the architects used NAIRN Vinyl tiles



The cafeteria at 'Hilltop', combined public house and community-centre at Hatfield New Town, Herts. The architects were Brett, Boyd and Bosanquet; the floorcovering which they specified was Nairn Vinyl tiles. Interior designer : HULME CHADWICK. Flooring contractors: S. H. WARE & CO. LTD.

MODERN ARCHITECTS, MODERN FLOORING

"The most imaginative experiment in licensed trade history." This was how the *Morning Advertiser* described 'Hilltop'. This modern project is another example of the fine use which up-to-date architects have made of Nairn Vinyl tiles.

What is 'Hilltop'?

A gift from two breweries (Guinness and McMullen's) to Hatfield, 'Hilltop' is an experiment in licensed house design. It combines, under one roof, a public house, an assembly hall-cum-theatre, a health clinic, two committee rooms, an unlicensed café with its kitchen, and the manager's private flat. A paved terrace runs around the licensed house.

How Nairn's twin range of tiles offers inexpensive colour schemes

Nairn make two ranges of 3.2 mm tile for commercial use: the contractors' basic A range, and the architectural design B range. The five colours in the range are those in greatest demand by architects, and Nairn make these tiles specially for contractors who want to lay floors at highly competitive cost. Moreover, by including a few tiles from the lighter, more expensive B range, you can create an attractive, imaginative scheme—still at low cost.

Twelve-inch square tiles

Besides the standard 9" x 9" size in 2.0 and 3.2 mm gauge, you can get Nairn tiles in all colours of the 3.2 mm range in a 12" x 12" size. This is the most economic size for laying and is particularly suited to the scale of larger installations.

NAIRN Technical Advisory Service

Technical representatives at Nairn area offices are ready and willing to give you advice and information on anything and everything about floorcovering services. Just contact your nearest office:

MICHAEL NAIRN & CO LTD
P.O. Box 1, Kirkcaldy, Scotland. Kirkcaldy 2011 (10 lines).
LONDON EC1: *131 Aldersgate Street. Monarch 3211 (8 lines).*
BIRMINGHAM 2: *65 Temple Row. Midland 5989 (2 lines).*
BRISTOL 4: *349 Bath Road. Bristol 77840.*
MANCHESTER 1: *4 Canal Street, Minshull Street. Central 1417 (3 lines).*
GLASGOW C5: *113 Centre Street. South 1011 (3 lines).*
NEWCASTLE-ON-TYNE: *41 Grainger Street. Newcastle 22807.*

TECHNICAL REVIEW

This Review of plant, equipment and materials—in most cases new or with new features—is intended to give brief details only of the products mentioned. Notices are based on data supplied by the manufacturers. Additional information and prices can be obtained either direct or by using the prepaid Readers' Service form which appears on page 151 of this issue. The form can be used for more than one inquiry.

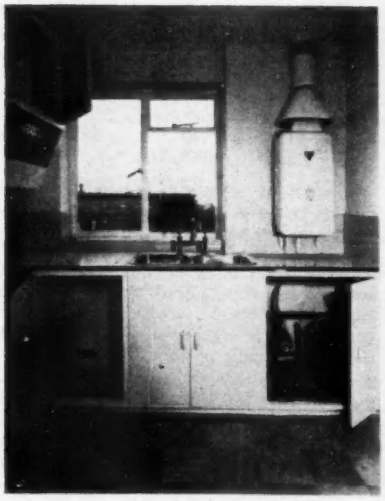
1. Doors

A new FITMENT for rising, outward-opening doors, manufactured in Western Germany, is now being imported into this country. It is completely draughtproof and can be used for every kind of wooden construction including single or double glazed doors up to a frame thickness of 3 in. The doors can be opened up to 180 degrees and seem particularly suitable for any opening on to a terrace.
Ashbourne Products, Ltd.,
94 Chaplin-rd., London, NW2.

2. Heating

The first block of flats to incorporate the new wall-mounted G 728 Ascot small bore CENTRAL HEATING SYSTEM has been completed at Willesden-lane, London, NW10. It is a pleasing four-storey development comprising nine one and two-bedroom flats with floor areas from 650 to 800 square feet. Each flat has its own self-contained central heating by means of a wall-mounted gas-fired unit, with forced circulation of hot water through a system of seven or eight single and twin Steelrad panel type radiators on a half-inch copper two-pipe circuit.

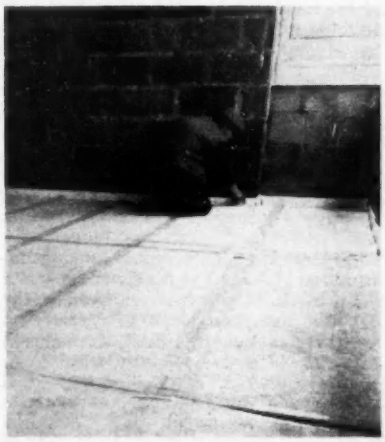
The central heating unit is fitted on the wall above the working surface in the kitchen, with the circulatory electric pump out of sight in a sink unit cupboard below. The cold feed expansion tank is also enclosed in the upper portion of a fitted kitchen unit. Automatic controls ensure correct temperatures throughout each flat—a master thermostat being situated in the hall. Hot water is supplied automatically by means of a gas instantaneous water heater of the balanced flue type, which is unobtrusively fitted beneath the sink unit.
Bratt Colbran, Ltd.,
10 Mortimer-st., London, W1.



A view of a kitchen in the newly completed block of flats in Willesden-lane. The central heating unit is hung to the right of the sink

3. Insulation

In the construction of multi-storey blocks of maisonettes in East London, use is being made of a specially flexibilised form of EXPANDED POLYSTYRENE (made by Shell at their Carrington chemical plant) for under-floor thermal insulation and impact sound insulation. Known as 'Marleycel' Sound Board, in this instance it is being applied in conjunction with under-floor heating.



Laying the sheets of 'Marleycel' sound board

The technique for laying the boards and the under-floor coil heating system is fairly straightforward. The boards are cut to shape to fit the floor area and then laid in position and taped together. At the same time, 3 in. strip is laid around the floor perimeter as a safeguard against heat and sound penetration into the walls. The heating coil system is then placed on top of the Sound Boards and finally a 2-in. thick floating concrete screed is put down on top of the coils. The insulation value of expanded polystyrene at a thickness of ½ in. is reputed to be outstanding.
The Marley Tile Co., Ltd.,
Sevenoaks, Kent.

4. Maintenance

A power operated SUSPENDED PLATFORM has been designed primarily for the contractor concerned with building maintenance although it is equally suitable as a permanent installation on tall buildings for periodic duties such as window cleaning. A number of safety features have been incorporated in the design including an automatic dual rope device which secures the platform in the event of a cable failure. The 2 h.p. electric motor has a reciprocating armature which acts as a brake when the power supply is cut off.

Repainting a storage tower: in this instance the platform is suspended from a rotating arm mounted on the roof

The platform is of tubular steel construction with a removable timber deck. Telescopic wheel mountings permit the cage to traverse both vertically and horizontally.
Access Equipment Ltd.,
Maylands-ave., Hemel Hempstead, Herts.

Technical Publications

The latest technical publication produced by SEALOCRETE PRODUCTS LTD. concerns Sealocrete Shieldcoat and Sealocrete Barriercoat. Shieldcoat is a gloss paint based on chlorinated rubber that will not saponify even when applied to alkaline surfaces, is resistant to acid attack, and may be used to give a good decorative finish combined with resistance to acid or alkaline attack in offices, works and chemical factories. Barriercoat is a corrosion inhibiting primer based on calcium plumbate for application to metal surfaces before a final coating of Shieldcoat or any other desired paint finish.

Technical publication No. 20 concerning these two products or the Sealocrete Handbook containing technical publications on all products may be obtained from Sealocrete Products Ltd., Atlantic Works, Hythe-rd., London, NW10.

J. THORN AND SONS, LTD., of Brampton-rd., Bexleyheath, Kent, are issuing a 38-page catalogue on the fabrication of buildings in timber. Eight building systems are described and illustrations, plans and specifications are included in each section. One of the newest systems, the Mono-Pitch design, which was used for some of the offices at the recently constructed Salisbury cattle market, is now available as a standard range of ready-made buildings in four different widths. Copies of this catalogue are available free on application to the company.

News in Brief

War Damage Commission

THE MANAGER'S OFFICE of the War Damage Commission, Government Building, Bromyard-avenue, Acton, London, W3, is being closed and from June 1 correspondence should be addressed to the Manager, War Damage Commission, City Gate House, Finsbury-square, London, EC2.

University of Cambridge

WOOD BLOCK flooring in prime Burma teak for the Chemical Engineering Laboratories at the University of Cambridge (illustrated in 'The Builder' of May 13) was supplied and laid by Stevens & Adams Ltd.

The British Exhibition, New York

FACTORY PLANNING LTD. will be represented at the British Exhibition in New York from June 10 to 26 by their managing director, Mr. W. Gordon Lilly. He will meet visitors on their stand in the Coliseum Building.

Water Treatment Exhibition

THE FIRST Effluent and Water Treatment Exhibition and Convention will be held at Seymour Hall, London, W1, from October 18-21 next. Claimed to be first of its kind in Europe, the exhibition will bring together firms with effluent problems and local authorities and manufacturers of treatment plant.

Chairman Re-elected

AT THE annual general meeting of the British Rubber and Plastics Belting Manufacturers' Association, held on April 27, Mr. David D. Marshall (Greengate and Irwell Rubber Co. Ltd.), was re-elected chairman for 1960-61.

LMBA Handbook

THE London Master Builders Association Handbook for 1960 has now been issued in completely revised edition. Improvements have been made to facilitate ease of reference, although the six main thumb-indexed sections remain basically the same as in previous years. The education and apprenticeship sections have been enlarged and one new feature is a section on the rates of lodging allowances. The Handbook is available, price 7s. 6d., from the Association at 47 Bedford-square, London, WC1.

Building Society Interest Rates

BUILDING societies have been meeting increased competition from other bodies which seek the savings and investments of the public. This has been accompanied by a marked rise in the general level of interest rates. In consequence, an investment rate of 3¼ per cent (with income tax paid by the society) is no longer sufficiently attractive. The Council of the Building Societies Association has accordingly recommended to members that, on or after July 1, the rate of interest on ordinary shares should return to the figure of 3½ per cent.

In order that societies may meet increases in income tax and profits tax and rising costs of administration, the Council has also recommended an increase in the mortgage rate from 5½ to 6 per cent.

OVERSEAS BUILDING

From Our Own Correspondents

AUSTRALIA.—The Australian Government has approved a major change in the Snowy Mountains hydro-electric scheme. Under the new plan, known as the high-level diversion proposal for Snowy-Murray waters, a 15-mile tunnel will be excavated between the Snow River at Island Bend and Lake Eucumbene to enable Lake Eucumbene to be used to store Snowy waters as well as the waters of the Eucumbene, Tumut and Murrumbridge Rivers. . . . A complete block in the heart of Sydney will be redeveloped in a scheme planned by an Australian company, Lend Lease Corporation, at an estimated £20 million. Central features of the new project will be a tower block 40 to 50 storeys high. The area is bounded by Hunter-, Pitt-, Bond- and George-streets. Part of the area was purchased from the Australian Mutual Provident Society for £1,600,000. A representative of Lend Lease Corporation, Mr. G. J. Dusseldorp has left for the US to confer with a firm of architects who will act as consultants for the overall planning. . . . The Minister of Works, Mr. Freeth, has announced that a tender for £3,036,000 has been accepted for the construction of Stage I of the Commonwealth Office block, Elizabeth-street, Sydney. The contract has been given to Clementson Watts Joint Venture (E. S. Clementson Pty. Ltd. of Sydney, jointly with E. A. Watts, Pty. Ltd. of Melbourne). . . . Another big oil refinery is to be built in Western Australia. B.P. Australia Ltd. will spend £8 million to £10 million building the refinery at Kwinana. It is already in an advanced state of planning and will bring B.P.'s capital investment in Western Australia to about £50 million.

AUSTRALIA (QUEENSLAND).—A new art gallery is to be built at Brisbane. It will form part of the proposed cultural centre which will include a Pioneers' Centenary Hall with seating accommodation for 1,000-1,500 persons. This will provide facilities for dramatic arts, musical arts and other cultural activities. The Minister of Education has announced that the estimated cost is £A600,000.

AUSTRALIA (QUEENSLAND).—Construction work has started at St. Lucia on the new £345,000 anatomy block of the University of Queensland.

CANADA (ALBERTA).—Construction of an $8.5m. addition is planned for the Charles Camsell hospital in Edmonton. . . . Tenders are to be called this month on the $50m. pulp mill to be constructed at Rocky Mountain House.

CANADA (BRITISH COLUMBIA).—Rothman's of Canada Ltd. propose to construct a $1.5m. plant. . . . B.C. Cement will start construction on a new plant at Bramberton shortly.

CANADA (MANITOBA).—The Monarch Life Co. has called for tenders for the construction of their Winnipeg Head Office. Estimated cost is $3m.

CANADA (ONTARIO).—Construction amounting to $6.5m. has been announced for the City of Brantford. Included in the plans are 3 shopping centres and 3 blocks of flats. The Massey-Ferguson Company has purchased 90 acres of land, possibly with a view to building.

CANADA (ONTARIO).—A 350-bed, $5m. addition is to be constructed to the Ontario Hospital, Port Arthur. Other construction projects proposed for this town are a $6m. shopping centre and housing division, and a $2m. residential programme. . . . General construction contracts for the $19m. Brockville Chemical Ltd. plant will be awarded shortly.

CANADA (SASKATCHEWAN).—Procon (Canada) Ltd., of Toronto, have been awarded a $2.7 contract for the construction programme of Co-operative Refineries Ltd., at Regina. . . . A large plant, to include glass houses and shipping facilities, is to be constructed at Moose Jaw by Valley Park Greenhouses Ltd.

HONG KONG.—Building of the new city hall, a five-unit project costing $20 million is to commence shortly. A number of new hotels are projected for Kowloon. A large hotel is to be built on the old Murray Parade Ground which is to be auctioned soon. . . . The Government has issued a comprehensive report on the development of the Colony's biggest post-war industrial town, Kun Tong, beyond Kai Tak Airport where 150,000 people are eventually to be provided with accommodation and all the necessary facilities and amenities to make it a self-contained satellite town.

IRAN.—British and German industrialists and Swedish consultants have again been discussing details of the proposed contract with the Government for

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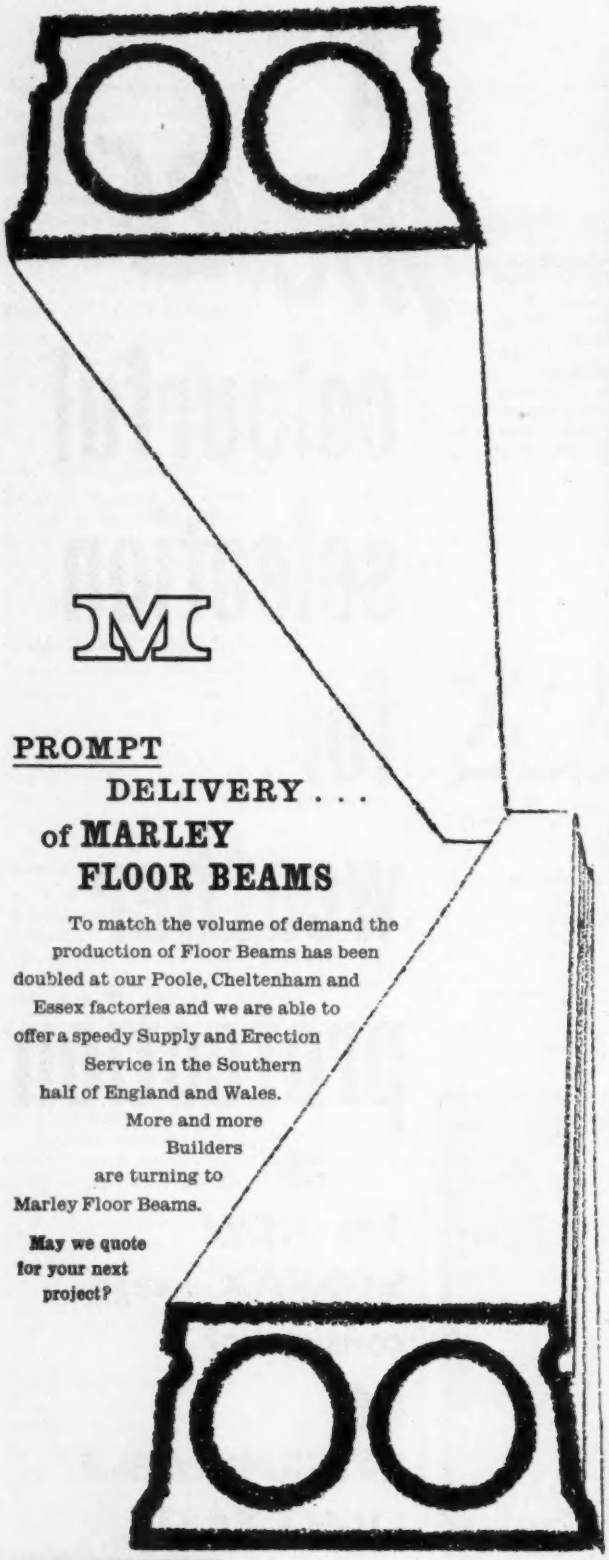

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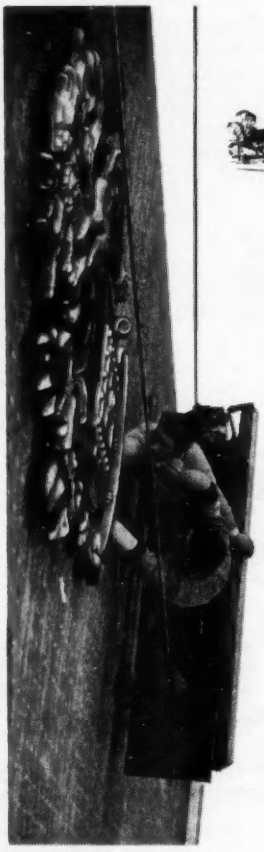

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1919	£136,878	£253,762
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the erection of a steel works as Azna. The project is described as a first charge on the next Plan programme and it is expected that work will start immediately upon signature of a framework contract. The total cost of the project is estimated at $150m. . . .The Pahlavi Foundation is said to have plans for the building of new 100-room hotels at Shiraz and Khorramshahr.

KENYA.—A new £1m. factory is to be built at Mombasa, Kenya's principal port, by a Canadian company, Aluminium, Ltd. A small plant will be built at Dar-es-Salaam, in Tanganyika.

MALAYA.—The Prime Minister has said that the Federation is to have a new international airport and a 12,000-acre site about 10 miles from Kuala Lumpur has been gazetted for acquisition by the Government. The airport will have a two-mile runway and will be built to full international standards. It is estimated to cost $50m. It will be some time before orders are placed for equipment but there is likely to be an immediate opening for consultant services from overseas. . . . The contract for the Klang Straits—a $30m. port project—has been awarded to Gammon (Malaya), Ltd., in association with Christiani and Nielsen of Copenhagen. . . . Investigations are being conducted with a view to finding suitable hydro-electric power sites. In addition, there are plans by the Central Electricity Board to make Johore region independent of Singapore supplies by the erection of a conventional oil-fired station at a site on the Johore Straits. The station will have an initial 20 MW capacity, but provision will be made to increase this in 20 MW phases. Construction is expected to start this year with production beginning by the end of 1962. . . . The Port Swettenham Council has approved the plan of Caltex to build a $1m. storage depot in the town. . . . The Malayan Film Unit is to build new headquarters costing $1.4m. . . . In Kuala Lumpur plans have just been announced for the construction of a new Parliament House. . . . At Petaling Jaya the town centre is to be developed together with a 1,000-acre housing site.

NEW ZEALAND.—The New Zealand Government is to build an international airport at Mangere at an estimated cost of £339,075. A decision on the harnessing of Lake Manapouri for an aluminium industry should be made by the end of the year. A statement to this effect was made by Mr. D. Campbell, the project engineer for the investigating consultants, the Bechtel Corporation, San Francisco. The investigation is being made on behalf of Consolidated Zinc Ltd., the Australian company interested in establishing the industry.

RHODESIA (NORTHERN).—The Rhodesian Federal Government is planning a new central hospital for Ndola, which will cost £810,000 and provide some 400 beds for all races, reports Barclays Bank DCO. Other Rhodesian building activities reported by the Bank include the value of building plans passed by Northern Rhodesia municipalities during February at £272,000 and £849,000 by three municipalities in Southern Rhodesia.

RHODESIA (SOUTH).—Richard Costain (Africa) Ltd. are to develop 180 acres of land at Lakeside, near Bulawayo, as a residential area with private fishing and boating rights. Houses on acre stands will cost from £4,500 upwards.

SINGAPORE.—The Singapore Government is seeking assistance to finance a pre-investment survey for an iron and steel plant in the city. Total investment for such a project is estimated at about $600m. Various reports suggest that Japanese industrialists might be interested. A representative of the UN Technical Assistance Board has visited Singapore in connection with the project. . . . The Singapore Telephone Board is to spend about $20 million over the next five years on an expansion programme mainly in rural areas. Three new exchanges are to be erected.

SOUTH AFRICA.—Plans for building the biggest dam in South Africa at Pongolapoort are detailed in a report from the Director of Water Affairs. It is an £118m. project in which 400,000 cubic yards of concrete will be used to block the gap in the Lebombo Mountains and spill the waters of the Pongola over nearly 19,000 morgen of farmlands on the Natal-Transvaal border.

Costs of Rhodesian Housing

ACCORDING to Barclays Bank DCO, the Northern Rhodesia Africa Housing Board has calculated that 55 per cent of the cost of a typical two-bedroomed housing unit is spent on materials produced in the Federation, about 25 per cent on labour, plant, overheads and profit, and some 20 per cent on imported materials.

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SCOTTISH BUILDING TRADE WAGES

FOLLOWING are rates of wages authorised by the Scottish National Joint Council as from April 18, 1960. They apply to the whole of Scotland, including the islands of Orkney, Shetland, etc.

Grade A: Craftsmen, 4s. 11½d.; Labourers, 4s. 4d.

For apprentices, the rates are :

Year	*Percentage of Craftsman's rate*	*For week of 44 hours* s. d.
1st	25	54 6½
2nd	33½	72 9
3rd	50	109 1
4th	66⅔	145 6
5th	75	163 7½

For female labour, the rates are :

	s. d.
Operatives on craft operations (at end of probationary period)	4 4
Operatives on labouring operations (at end of probationary period) ...	3 10

Glasgow Rehousing Project

THE HOUSING Committee of Glasgow Corporation have approved the appointment of Messrs. Honeyman, Jack & Robertson, of Bath-street, as architects and consultants for the Ladywell rehousing project of 372 houses at the former Duke-street Prison site. This scheme will embrace two phases, the first involving 116 three-apartment and 206 two-apartment houses, and 50 flats for single persons. The second phase will comprise 114 houses. The scheme also involves 45 lock-up garages.

Employment of Private QS's

GLASGOW CORPORATION are to employ private quantity surveyors to undertake work in connection with the various projects now in process in the City. This decision results from the limited availability of permanent municipal staff. Messrs. Muirhead, Muir & Webster, Baxter, Dunn & Gray, William Talbot, and James McAulay & Son, all in private practice in the city, have been nominated for this work.

New Buildings

ANGUS CC.—New JS sch., Seaton-rd., Arbroach. Several works contract. Names by May 30, County Buildings, Forfar. Dep. £10 10s.

DUMFRIES.—An industrial estate for Dumfries is planned by Dumfries Trading Estates Ltd., of Leeds. A 310-acre site at Heathhall, Dumfries, bought for £50,000 a year ago, will be developed; using existing RAF hangars and new factory blocks which are to be rebuilt.

EDINBURGH.—MacTaggart & Nickol Ltd., Scottish house-builders, are seeking to build 220 houses and 48 garages at Silverknowes-rd., Edinburgh, at an est. cost of £528,000.

GLASGOW.—J. L. Gleave & Ptnrs., Glasgow architects, have been appointed architects and consultants for the Pollokshaws No. 1 unit development. This project involves 143 one-apartment, 170 two-apartment, 443 three-apartment, and 73 four-apartment houses. The Housing Dept. has approved in principle the scheme advanced by Mr. Gleave, and has given authority to

proceed with estimation of costs and with working drawings. . . . Robert M. Douglas, contractors of Birmingham, have been awarded the contract for piling work in the Hutchesontown/Gorbals Area C, at a cost of £58,219. Glasgow Engineers Ltd. have also been granted a contract for this Area C development; namely, to provide lifts for the multi-storey blocks of houses at a figure of £41,622. . . . Glasgow Housing Com. has also considered its brick requirements for the coming year, and has approved a purchase list covering the period from May 1, 1960, to April 30, 1961, at an all-in figure of £370,000.

INVERNESS CC.—Supply and laying of about 7 miles of 3 to 12in. dia. AC or PVC piping at Skallary, Isle of Barra. Applications to County Water E. Tenders by June 21.

KILRENNY ROYAL BURGH.—Erection of 18 houses of traditional type. Several trades. James Gillespie & Scott, 4 Queen's-gdns., St. Andrew's. Applications by May 30.

LOTHIANS & PEEBLES JOINT POLICE COM.—Garage extension at Dalkeith Police Station. County A, 32 Palmerston-pl., Edinburgh.

MOTHERWELL & WISHAW.—An extension to their pressure vessel shop is proposed by Motherwell Bridge & Engineering Company Ltd. at a cost of £100,000. Permission has been given by Motherwell & Wishaw Burgh Dean of Guild Court. . . . A shop costing £40,000 is to be built in Main-st., Wishaw, by Wishaw & Newmains Co-operative Society Ltd.

THE BUILDER CONSTRUCTION NEWS

Full details of Public Appointments open will be found in the Advertisement pages of this and previous issues.

CONTRACTS OPEN

For some contracts still open but not included in this list, see previous issues. Those preceded by the symbol (A) are advertised in this number. The latest date for the receipt of tenders or applications appears above each paragraph. The symbol (R) preceding each entry indicates that applications must be received by this date.

BUILDING

MAY 30

(AR) SOUTHAMPTON CBC.—136 flats at Redbridge Triangle. Boro' E&S.

JUNE 2

(AR) BIRMINGHAM CITY C.—Branch library at Stratford-rd., Hall Green. City A.

JUNE 3

(A) BEDFORD BC.—24 flats and 18 houses at Eastcotts estate. Boro' E&S. Dep. £3 3s.

(AR) CANTERBURY CITY C.—Erection of laboratory at Simon Langton gram. sch. for girls. City A. Dep. £2 2s.

(AR) CROYDON CBC.—Erection of a two-storey weights and measures office block at Canterbury-rd. Boro' E. Tenders by July 5.

ENNISKILLEN (Co. Fermanagh).—Work in connection with provision of new playing fields at St. Michael's grammar sch. Applications to J. A. Tynan, 33 Malone-rd., Belfast. Dep. £3 3s.

(AR) SOUTHEND-ON-SEA CBC.—Alterations and extensions to Flarepath restaurant at Municipal airport. Boro' A.

JUNE 4

(AR) ESSEX CC.—(1) First instalment of William Fitt sec. sch., Walthamstow. (2) New Rayleigh Grove county infants' sch. (3) Chadwell St. Mary Herringham county infants' sch. County A. (separate applications).

(AR) SWINDON BC.—Erection of public convenience and parks depot, etc., at Queens Park. Boro' A.

JUNE 7

LISBURN UDC.—Construction of 24 lock-up garages at Leamington estate. Town S., Town Hall, Lisburn, Co. Antrim. Dep. £2.

(AR) PORTSMOUTH CITY C.—(a) New science laboratory and preparation room at North End sec. mod. sch.; (b) 36 flats, two shops and 25 garages at Eastern-rd.; (c) 36 flats and 14 garages at Southampton-rd. City A. Dep. £1 (each contract).

JUNE 8

BRIDGE-BLEAN RDC.—10 dwellings at Adisham. H. V. Godfrey, 63 Oxford-st., Whitstable. Dep. £2 2s.

(AR) BROMLEY BC.—Additions at the county grammar sch. for boys, Hayes-la. Boro' E. Tenders by July 8.

(AR) DURHAM CC.—(a) Extensions, and (b) supply and erection of structural steelwork at Hebburn Tech. Coll.; erection of new county sch. at Dunn-st., Jarrow; extensions at Ryhope gram. sch.; extensions at Ryhope mod. sch.; kitchen and dining room extensions at Washington gram. technical sch.; erection of one pair of senior police officers' houses with two garages at West-la., Chester-le-Street. County A.

JUNE 9

(AR) LEEDS REGIONAL HOSPITAL BD.—Fixed price tenders for extensions to Ward M5 at Bootham Park Hospital, York. A to Bd. Dep. £2 2s.

(AR) WEYMOUTH & MELCOMBE REGIS BC.—Firm price tenders for sports pavilion at Marsh playing fields.

JUNE 10

(A) CAERNARVONSHIRE CC.—Erection of unit building at rear of sch. at Town Ditch-rd., Conway. County S. Dep. £2 2s.

(AR) CARLISLE CITY C.—Fixed price tenders for the construction of civic centre (first phase). TC.

CLOGHER (EIRE) RDC.—Erection of 36 houses at Fivemiletown and six houses at Aughnacloy, with incidental road and drainage work. E. C. Harris & Partners, Ulster Bank-bldgs., Crumlin-rd., Belfast. Dep. £5 5s.

(AR) LEEDS REGIONAL HOSPITAL BD.—Fixed price tenders for modifications to HWS Calorifier plant at Menston Hospital, Menston, Ilkley. A to Bd. Dep. £2 2s.

JUNE 11

(A) WOOD GREEN BC.—Branch library at junction of Alexandra Park-rd. and The Avenue. Boro' E. Dep. £1 1s.

JUNE 13

(A) CANTERBURY CITY C.—Fixed price tenders for 15 houses, four old persons' bungalows, eight corner flats and 12 garages at Hales Place estate. City A. Dep. £2 2s.

(AR) EXETER CITY C.—Erection of market, corn exchange and basement and car park at Fore-st. City A. Dep. £5 5s.

(A) KIDDERMINSTER BC.—Major repairs to existing Corporation houses at Gheluvelt-ave. and Hurcott-rd. Boro' E&S. Dep. £2 2s.

NEWRY UDC.—Erection of 16 three-apartment and six four-apartment houses at Upper Chapel-st., Newry. Applications to Town A, Town Hall, Newry, Northern Ireland.

JUNE 14

HILLSBOROUGH RDC.—Erection of 154 houses and construction of roads, sewers and drains, together with ancillary works, at Milltown, Shaw's Bridge, Co. Down. Applications to William Barklie Maxwell, 5 University-terr., Belfast. Dep. £10 10s.

HILLSBOROUGH RDC.—Erection of new council offices on a site at The Square, Hillsborough. William Barklie Maxwell, 5 University-terr., Belfast 7. Dep. £10 10s.

JUNE 15

(A) MANSFIELD BC.—10 dwellings at Ladybrook housing estate. Boro' E&S. Dep. £2 2s.

(A) WOOD GREEN BC.—Plant nursery at Wolves-la. Boro' E. Dep. £1 1s.

JUNE 16

(A) HAVANT & WATERLOO UDC.—Erection of a public convenience at Sea Front-rd., Hayling Island. E&S.

JUNE 17

ABERDARE UDC.—Erection of 70 dwellings at Maesgwyn site, Cwmdare. E&S. Dep. £2 2s.

JUNE 20

(A) SUNDERLAND CBC.—Erection of a training centre at Humbledon. Boro' A. Dep. £2 2s.

JUNE 21

(R) BOURNEMOUTH CBC.—Fixed price tenders for erection of three pairs of bungalows and ancillary works at Paget-rd., Kinson. Boro' A. Dep. £2 2s.

JUNE 24

(A) BANBURY BC.—Demolition of slum clearance properties and erection of one pair of bungalows at Grimsbury. Boro' E&S. Dep. £2 2s.

(A) HEREFORD CITY C.—Erection of 159 houses and 154 garages at Newton Farm. City A. Dep. £2 2s.

JUNE 25

(A) EAST GRINSTEAD UDC.—Modernisation of 80 and 82 Queens-rd. S. Dep. £2 2s.

JUNE 27

(A) STOCKTON-ON-TEES EC.—Erection of infants' sch. at Fairfield. Boro' A. Dep. £1 1s.

JULY 4

(A) SALFORD CITY C.—Firm price tenders for a house at Charlestown recreation ground. City E&S. Dep. £2 2s.

JULY 5

(A) CHESTER-LE-STREET RDC.—(a) Demolition of approx. 90 cottages; (b) construction of concrete roadworks and laying of drains, and (c) erection of 122 dwellings at Ouston, nr. Birtley. F. Bowman, Estate Office, Birtley, Co. Durham. Dep. £3 3s.

JULY 11

(A) EASTLEIGH BC.—Firm price tenders for the erection of two pairs of four-bedroom type houses, etc., at Velmore housing estate (stage VIII). Boro' E&S. Dep. £2 2s.

NO DATE

(A) CREWKERNE UDC.—56 houses and bungalows with road and sewer works at Southmead-cres. Petter Warren & Roydon Cooper, The Old Oxford Inn, West Hendford, Yeovil. Dep. £2 2s.

SURREY.—Bland, Welch & Co. Ltd. invite tenders for the erection of 24 dwellings at Northcote-cres., West Horseley. Applications to M. G. Enser, Secretary, Sackville-hse., 143/9 Fenchurch-st., EC3. Dep. £4 4s.

SERVICES, PAINTING, MATERIALS, ETC.

JUNE 4

(AR) BOURNEMOUTH CBC.—Fixed price tenders for installation of central heating plant at East Howe infants' sch. Boro' A.

(A) MITCHAM BC.—External painting of 324 flats at Pollards Hill estate. Boro' E&S.

JUNE 9

(A) RICKMANSWORTH UDC.—External painting and incidental repairs to 232 houses and 26 garages at Dugdales, Parrotts and Berry-la. estates. E&S. Dep. £2 2s.

JUNE 10

(AR) WEST RIDING OF YORKS CC.—Internal and external painting at County Welfare establishment, Northgate Lodge, Pontefract. Div. A., Bishopgarth, Westfield-rd., Wakefield.

JUNE 11

(A) DAGENHAM BC.—Supply and fixing of roof tiling to 14 blocks of dwellings (102 units) at Limbourne-ave. estate. Boro' E&S.

(A) DUNSTABLE BC.—Exterior painting of:—(a) 96 houses and flats at Brewers Hill estate. (b) 80 houses at Downside Estate. Housing Estates Mgr. Dep. £1 1s. (each contract).

JUNE 14

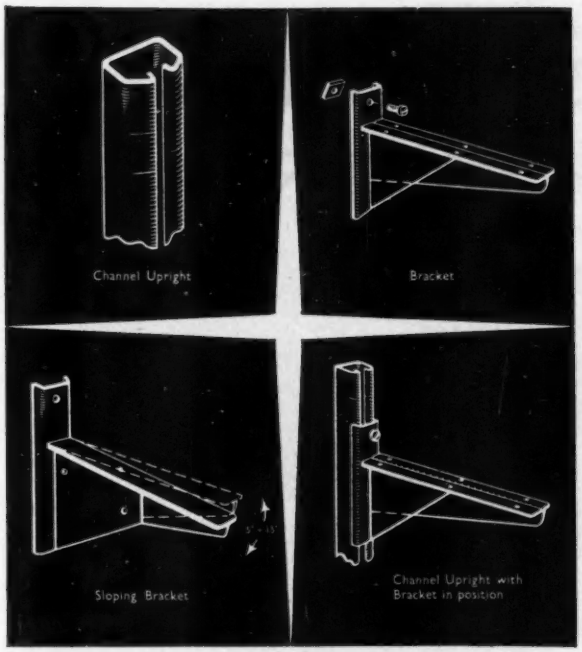
(A) BERKSHIRE & READING FIRE AUTHORITY.—Repair work to roof of Fire Station at The Broadway, Didcot. County A. Dep. £2 2s.

(A) HARROW BC.—(a) Boundary fences and brick walls and ancillary works at Elm Park-rd., Pinner. (b) Boundary walls and fences and ancillary works at Uxbridge-rd., Stanmore. Boro' E. Dep. £2 (each contract).

JUNE 17

(A) ESHER UDC.—External painting of 58 houses, 12 flats, four bungalows and nine garages at Blair-ave. and Cranbrook-drive. E&S. Dep. £1 1s.

(A) SOUTHPORT CBC.—Exterior painting of Council houses (seven contracts). Boro' A & TP Officer. Dep. £1 1s.



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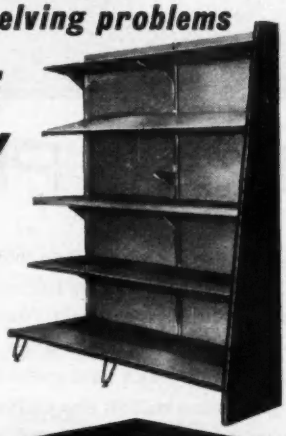

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JUNE 20

(A) STEPNEY MBC.—(a) Supply and laying of Semtex thermoplastic tiles in 57 dwellings at Spital-st. housing scheme. (b) Exterior redecoration of 573 dwellings on Council estates. Boro E&S. Dep. £2 2s.

JUNE 24

(A) WREXHAM BC.—Fixed price tenders for the supply and delivery of:—(a) ironmongery; (b) sanitary fittings; (c) faience fireplace surrounds, and (d) wood windows for 50 dwellings at Tanat Way, Sutton-drive and Archers Way sites. Boro' E&S.

JUNE 30

(A) WISBECH BC.—Heating scheme for Council offices. Boro' E.

MUNICIPAL AND CIVIL ENGINEERING WORKS, ETC.

JUNE 7

SALISBURY & WILTON RDC.—Fixed price tenders for approx. 1¾ miles of 4in. dia. spun-iron main, and works incidental to the construction of a water tower, and to the development of an existing borehole at Lopcombe Corner, nr. Salisbury, Wiltshire. Lemon & Blizzard, Ccl's. constg. engrs., 1 Glenside, College-ave., Mannamead, Plymouth. Dep. £3 3s.

JUNE 8

SOMERSET CC.—Approx. 125,000 cu yd. of bulk excavation and approx. 3,000 lin. yd. of stone-filled SW drains for proposed improvement at Butcher's Wood, Swainswick. County S. Dep. £2.

JUNE 10

ATCHAM RDC.—4,360yd. of 3in. dia. water main, with the construction of a mass and rc reservoir—capacity 19,000gals.—etc. E&S. Dep. £2 2s.

JUNE 12

MALDEN & COOMBE BC.—Laying by machine of approx. 20,000 sq. yd. of ¼in. fine cold asphalt on district roads, and approx. 1,000 sq. yd. of ¾in. fine cold asphalt on county roads. Boro' E&S.

JUNE 16

DUDLEY CBC.—Redevelopment of roads and sewers in Flood-st. area, including the construction of some 10,000 sq. yd. of carriageway and the laying of 1,900yd. of sewers, up to 30in. dia. Boro' E&S. Dep. £2 2s.

JUNE 17

NEW SARUM CITY C.—Fixed price tenders for the reconstruction of Fisherton Bridge. City E. Dep. £2.

JUNE 20

ROTHERHAM CBC.—Reconstruction of Whybourne-terr., Whybourne-gro. and Portland-terr. Boro' E. Dep. £2 2s.

JUNE 22

SALISBURY & WILTON RDC.—Fixed price tenders for 1,600yd. of 6in. dia spun-iron main, and modifications to an existing reservoir at Whiteparish, nr. Salisbury. Lemon & Blizzard, constg. engrs., Telford-hse., Hulse-rd., Southampton. Dep. £3 3s.

SUTTON & CHEAM BC.—Reconstruction or resurfacing of approx 17,000 sq. yd. of footpaths on districts roads. Boro' E&S. Dep. £2 2s.

NO DATE

(A) HARTLEY WINTNEY RDC.—Main drainage scheme for Lower Common area of village of Eversley. E&S.

GENERAL BUILDING WORK (LONDON)

HAMMERSMITH.—Aged Persons' Home.—The LCC Welfare and Housing Committees propose to provide at Westway, Hammersmith, a West London counterpart of Eastway Park—the combined old people's home and block of old people's flatlets opened at Eastway, Hackney, in November, 1958. The est. cost of the residential home, which would house 83 old people and 4 resident staff, is £127,077.

ISLINGTON. — Housing Development.—The LCC Housing Com. propose to provide a six-storey block of 24 flats and a four-storey block of 12 maisonettes, 18 tenants' stores, seven garages and parking spaces at Lowther-rd., Islington. It is proposed to carry out this work by the direct employment of labour at an est. cost of £107,300 (including £9,688 for the laying out of gardens and incidental expenses).

ISLINGTON. — School Extension. — LCC propose extensions to the Northern Polytechnic, Islington. Est. £701,165.

LEYTON.—Bridge Reconstruction.—The cost of reconstructing the Temple Mills Bridge is est. at £244,000.

LONDON CC.—New Fire Stations.—The LCC Fire Brigade Com. have approved a three-year building programme involving capital expenditure of £830,000. Under this programme it is hoped to build four new fire stations at Chelsea, Clapham, Lewisham and Shoreditch, and to carry out major improvements to six other old stations. The long-term programme for modernisation works is extensive (expenditure of £3 million in the next 12 years is envisaged), since many of the existing fire stations are not up to present-day standards.

SOUTHWARK.—Rehousing of School.—Mount Clare and Downshire House, the buildings on the Alton Estate which the LCC has undertaken to preserve for their architectural and historic interest, are included in a scheme approved by the LCC EC Sub-Com. for rehousing Garnett College, the training college for technical teachers in Southwark. The cost of the scheme is est. to be £461,000. The 19th and 20th century extensions of Mount Clare will not be retained, but the original 18th century building will be adapted for use as students' common rooms. The later additions to Downshire House will be demolished, but the Sub-Com. propose to restore and adapt the original building for use as tutorial rooms, administrative offices and students' common rooms. A two-storey block will be built nearby containing teaching accommodation and an assembly hall.

WANDSWORTH.—Youth Centre.—A site of half an acre at Alton estate, Wandsworth, Putney, has been allocated by the LCC for the provision of an adult education and youth centre to supplement the evening institute provision in the area, which relies at present mainly on the use of accommodation in primary schools. The MoE has agreed to include the project as an additional item in the further education building programme for the period ending March 31, 1961, and, subject to the Minister's approval, the LCC have approved a scheme for a one-storey building containing 7,983 sq. ft. of floor space. Est. cost £39,900.

WEMBLEY. — New County Offices. — Middx. CC is to apply for outline permission for the building of its proposed new county offices at Northwick Park, Wembley. Drawings and models have been prepared by Mr. G. Stillman, former County architect. The new buildings will cover 12.7 acres, and include council chamber and committee rooms and office accommodation.

WESTMINSTER.—Hyde Park Development.—Mr. Michael Rosenauer, FRIBA, has submitted a town planning application to the LCC, which would ultimately affect the Hyde Park Hotel, Knightsbridge, and properties near by. The scheme involves a new building and alterations to No. 2 Albert Gate, and the total site affected includes such buildings as the Royal Thames Yacht Club, an office of the Westminster Bank and the Danish Club. It is understood that the plans envisage the erection of an hotel, shops, exhibition rooms, restaurant and offices.

WESTMINSTER.—Stag Brewery Development.—The LCC Town Planning Com. have granted conditional planning permission for a revised scheme of development for the Stag Brewery site, Victoria. The new layout has been devised to provide the minimum of service roads within the site and consequently a limitation of movement of vehicles to and from the surrounding main streets. All the buildings are grouped around a large raised central piazza which will be suitably landscaped. There will be two office blocks, each ten storeys in height, one of eight storeys, a residential block of sixteen storeys and a 27-storey tower block of offices. The tower block will be an important element in the whole composition and considerable attention has been given to its form so that it should present a satisfactory and interesting appearance when seen from any angle. A restaurant, petrol-filling station, multi-storey car park and a new welfare centre to replace the Council's existing premises in Princes Row, are also included in the development.

WOOLWICH.—New Schools.—The LCC plan to build at least eight new schools within the borough. A LCC town planning spokesman is quoted as saying that there would probably be more when the position of voluntary schools was clarified.

Contracts Placed

We are glad to receive from architects and quantity surveyors for publication details of contracts placed to the value of £20,000 or over. Such information should reach the Editor as soon as possible after the contract is signed. Names of the architect and other consultants associated should be given.

(PROVINCIAL)

ALSTON (Cumberland). — Newcastle Regional Hospital Bd. propose extension scheme at Alston Cottage Hospital. Plans by Board's area architect, N. Edgar, 72 Warwick-rd., Carlisle.

BERKSHIRE.—EC is including in 1962/3 major building programme a proposal for a special sch. for 100 educationally subnormal children to be built at Newbury. Est. £37,000. . . . Included in top-priority programme is a new seven-class prim. sch. at Thatcham.

BRIGHTON.—A plan for an £835,000 building scheme at Edward-st., which will provide new police headquarters, Law Courts and an underground car park for 200 cars has been approved by the Corporation's Planning Com. On the roof of the main police block provision has been made for landing light helicopters. Models are to be prepared and approval of the RFAC will be sought regarding design. Est. cost of the police headquarters is £417,000; Law Courts £293,000 and underground car park £125,000.

BURNLEY.—Manchester Regional Hospital Bd. propose converting laundry into kitchen at Bank Hall Maternity Hospital.

DARLINGTON.—British Road Services Ltd., London, to erect a road haulage depot at Haughton-rd.

DARLINGTON.—TC to erect 200 houses at Branksome estate. Actual building is not expected to start until 1961. . . . Robert Stephenson & Hawthorns Ltd., engrs., are to extend their premises at Springfield.

HASTINGS.—A plan for a new promenade linking St. Leonards-on-Sea with Bexhill is to be considered by TC. The area recovered from the sea—the scheme envisages at least 150 yards between the railway and the high tide mark—would be developed.

HAYLING ISLAND.—Henry Jones & Son (Portsmouth) Ltd., plan to build 51 dwellings on 6.5 acres of land between Elm-grove and St. Mary's-rd. South East Area Planning Com. has referred this application back so that the question of flat development can be considered.

KINGSTON-ON-THAMES.—The freeholds of more than forty shops, representing a variety of trades, in the centre of Kingston-on-Thames, Surrey, have been bought by the Alliance Property Co., which plans to build, in their place, two large skyscrapers of shops and offices. The development plan will cost over £3m. The whole area covers about 65,000 sq. ft. and includes five shops in Twickenham.

MANCHESTER.—Following for TC:—Erection of child welfare centre and mental health training centre at Brougham-st., Gorton; modernisation of library at Withington; new abattoir at Philip's Park, Public Hall, Wythenshawe. . . . S. Hampson (Cars) Ltd. propose showrooms/offices at Stockport-

rd. . . . Scaffolding (Gt. Britain) Ltd. propose office block at Pottery-la., Openshaw. . . . RC Auth. propose sec. sch. at Harperhey. . . . Newton Heath Sporting Club, Jacey House, Manchester. propose converting Ceylon Cinema into social club.

MANCHESTER.—Manchester & Salford Co-op. Soc. Ltd. propose erection of showrooms, stockroom and staff accommodation at Palatine-rd., Northenden. . . . Joseph Grewe & Co. Ltd. propose extension to paper works at Crabtree-la., Clayton. . . . Following for TC:— Housing development at Wayland-rd., Gorton/Orleton-hse., Chorleton-cum-Hardy/Annfield & Nuthurst-rd., Moston/Lightbowne-rd., Moston, and 24 acres land at Bredbury Green, Ches. . . . EC propose extension at College of Housecraft hostel, Palatine-rd., West Didsbury.

PORTSMOUTH.—City C has approved the Southsea Castle scheme. Est. £478,000. Work will be started in the current financial year. . . . City C is to seek loan permission for £135,000 for modernisation of pre-war council property as part of five-year modernisation programme which is expected to cost £750,000.

SALFORD.—TC propose extension to Royal Technical College of Advanced Education. Est. £1,040,000. . . . L. Kay & Co. (Builders) Ltd. propose erection of 36 flats and 39 garages at Bury New-rd. . . . Wilsons Brewery Ltd., Manchester 10, propose rebuilding the Railway Inn at Oldfield-rd. . . . Jewish Board of Guardians propose 24 flats at Tetlow-la., Higher Broughton. . . . Charles Weston & Co. propose two-storey offices at Douglas Green.

STAFFORD.—Birmingham Regional Hospital Bd. propose erection of office block at St. George's Hospital.

STAFFORD.—Plans of the English Electric Co. Ltd. to build a new £1,500,000 meter and relay factory off St. Leonard's-ave., Stafford, has been approved by the MH&LG. The new factory was the subject of a public enquiry in January, after local residents had objected.

STRETFORD.—The Lea Recorder Co. Ltd. propose erection of a two-storey warehouse at Chester-rd.

SUNDERLAND.—Plans are being prepared by Newrick and Blackbell for alterations and additions at Southwick Conservative Club, Shakespeare-st. . . . RDC is considering proposals for reconstructing sewers at Ryhope, Tunstall and Silksworth. . . . Hepworth & Grandage Ltd., Bradford, Yorks., are to erect a factory to produce castings for the motor car industry. A 20-acre site is involved. . . . Lane, Fox & Co. Ltd. are seeking permission to erect 10 shops at Seaburn Dene estate.

TYNEMOUTH.—TC are to discuss with M. J. Liddell & Sons the proposed development of a 12-acre site at Beaconsfield. The Corpn. has suggested that the site should be used for the erection of four blocks of 10-storey flats, two multi-storey hotels, swimming baths, dance hall, restaurant, shops, garages and ornamental gardens. . . . TC to erect old people's flatlets at Stanton-rd., Marden. Boro' E is D. M. O'Herlihy.

TYRONE.—CC propose to erect an old people's home at Omagh. Est. £100,000.

WALLINGFORD (Berks). — Blackstone county sec. sch. is to be extended to a full three-form entry sch.

WESTBURY (Wilts).—Plans for building extensions, est. £90,000, at Westbury sec. mod. sch. have been submitted for approval to County Planning Com.

WEST HARTLEPOOL. — Corporation Housing Com. has approved plans for 88 houses in the central area redevelopment scheme.

WHITEFIELD.—The Whitefield Hebrew Congregation propose erection of new synagogue and hall at Park-la.

WHITEHAVEN.—TC is considering the erection of 50 houses for the UK Atomic Energy Auth.

WIGAN.—The Corpn. have agreed in principle to the erection of a further eleven-storey block of one- and two-bedroomed flats at Scholes.

WINDERMERE.—RC Auth. propose erection of new church at Lake-rd.

WINNERSH.—Berks. County Planning Com. will inform MH&LG that they are prepared to approve a proposal in outline for residential development of Pheasant Copse Nursery, Reading-rd., Winnersh, a site of about three acres.

TENDERS

(A) Denotes *accepted*.
(PA) Denotes *provisionally accepted*.
(RA) Denotes *recommended for acceptance*.
(AM) Denotes *accepted subject to modification*.
(GD) Denotes *accepted subject to approval by appropriate Government Department*.

AXMINSTER.—42 houses at Millway Rise for RDC. (GD) Statham Estates (Torquay) Ltd.

BISHOP AUCKLAND.—Alterations to social club at Coundon. J. M. Angus, 3 Gallowgate, Newcastle-on-Tyne, architect. (A) Victor Dillon Ltd., Sunniside, Whickham, Co. Durham.

BRADFORD.—Following for TC:— 89 houses and 10 garages at Holme Wood estate. (A) Direct labour, £136,032.—147 houses at Holme Wood estate. (A) John Laing & Son Ltd., Mill Hill, NW7, £270,644.

CANNOCK.—(1) 18 houses, 18 flats, eight bungalows and eight garages at School-la. site, Coven, and (2) two houses and 14 garages at Great Wyrley for RDC. E&S is W. J. Page. Henry Vale & Sons, quantity surveyors. (A) K. S. Rock Ltd., Little Pountney-st., Wolverhampton, £48,016 and Bishops Burns & Co., 21 Tettenhall-rd., Wolverhampton, £5,575, respectively.

CARDIFF.—45 flats at Fern-pl., Fairwater, for City C. (A) H. Nurton & Sons Ltd., £55,169.

COSELEY.—(1) 44 dwellings at Turton-rd./Batsmans Hill-rd. (2) 118 dwellings at Daisy Bank housing site for UDC. (A) Buildings & Equipment Ltd., Wolverhampton, and K. E. Millard & Co. Ltd., Oldbury, respectively.

DARLINGTON.—Additions to works for ENV Engineering Ltd., Aycliffe Trading estate. Cordingley & McIntyre, architects. (A) Edgar Lawson Ltd.—Factory additions (35,000 sq. ft.) at Aycliffe Trading estate for Kleemann Plastics Ltd. (A) Edgar Lawson Ltd.

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DONCASTER.—Houses and flats at Edlington for RDC. (A) R. Dunkerley & Sons Ltd., £49,205.

DURHAM.—Erection of grammar/technical sch. at Peterlee for CC. County A is G. R. Clayton. (A) G. M. Pearson & Son Ltd., Front-st., Hetton, Co. Durham, £242,232.—Erection of village hall at Middleton-in-Teesdale for CC. (A) O. & M. Builders Ltd., 37 Newgate, Barnard Castle, £11,700.—Erection of residential nursery at East Boldon for CC. (A) Gordon Durham & Co. Ltd., Moor-la., East Boldon, £12,487.

GOSFORTH.—Street making at Grange-la. estate for UDC. (A) Adam R. Robertson Ltd., East Park View, Blyth, £15,748.

GUILDFORD.—54 dwellings and ancillary works at Almsgate, Compton, for RDC. E&S is J. W. Snape. (A) Gable Construction Co. Ltd., 64 Garratt-la., London SW18, £91,099.

HARROGATE.—10 flats at Victoria-rd., for TC. (A) Wilkinson Building Co. (Leeds) Ltd., Bramhope, Leeds.

HESTON & ISLEWORTH.—Widening and improving of Cranford-la. for BC. (A) Norman Hill, £55,601 (fixed price tender).

LEEDS.—Six-storey factory at Greek-st. for J. W. Watson & Son. (A) Bovis Ltd., Stanhope Gate, W1.—128 houses at Swinnow estate for TC. (A) N. B. Bell & Co. Ltd., Leeds, £174,432.

LIVERPOOL.—New men's hall for University of Liverpool. (A) William Thornton & Sons Ltd., Wellington-rd., Liverpool.

(GD) LONDON (Air Ministry).—Contracts to the value of £500 or over for the week ended May 20:—*Building work:* Upavon, Wilts., A. J. Dunning & Sons (Weyhill) Ltd., Weyhill, Andover, Hants.; Hemswell, Lincs., etc., Hadsphaltic Construction Co. Ltd., Johnston-hse., Hatchlands-rd., Redhill; North Luffenham, Rutland, Melton Mowbray, Leics., etc., William Press & Son Ltd., Willoughby-la., Tottenham, London, N17; Leconfield, Yorks., F. Shepherd & Son Ltd., Blue Bridge-la., York; (Prefabricated) Benbecula, Hebrides, Medway Buildings Supplies Ltd., Phœnix Wharf, Rochester, Kent. *Resurfacing work:* Tangmere, Sussex, The Limmer & Trinidad Lake Asphalt Co. Ltd., Trinidad-hse., Bournemouth-rd., Chandlersford, Eastleigh, Hants. *Runway work (extension to existing runway):* Luqa, Malta, Whatlings Ltd., 10 Woodside-cres., Glasgow, C3. *Artificers' work:* Pucklechurch (Bristol), S. W. Foster Ltd., Coombend, Radstock, Somerset; Worth Matravers (Dorset), etc., Frank Wyatt & Son Ltd., Upton, Poole, Dorset. *Supply and installation of submersible borehole pumps:* Various RAF stations in UK, Sumo Pumps Ltd., Gatwick-dr., Crawley, Sussex; Berry Hill (Engineers) Ltd., PO Box No. 5, Cheadle, Stoke-on-Trent, Staffs.

LONDON CC.—Provision and installation of gas water-heaters in 699 dwellings at Browning estate, Southwark, and East Dulwich estate, Camberwell, Dulwich.

The London Bridge Sanitary & Heating Co. Ltd.	£34,238
Ellis (Kensington) Ltd.	32,957
South Eastern Gas Board	31,164
F. J. Baynes & Co. Ltd.	30,535
J. C. Spooner (Heating) Ltd. ...	30,286
William Edgar & Son Ltd.	29,980
(A) Stitson, White & Co. Ltd. ...	29,353

Director of housing's comparable estimate is £30,426.

LONDON CC.—Provision of changing-accommodation at Old Oak Common, Wormwood Scrubs, Hammersmith North.

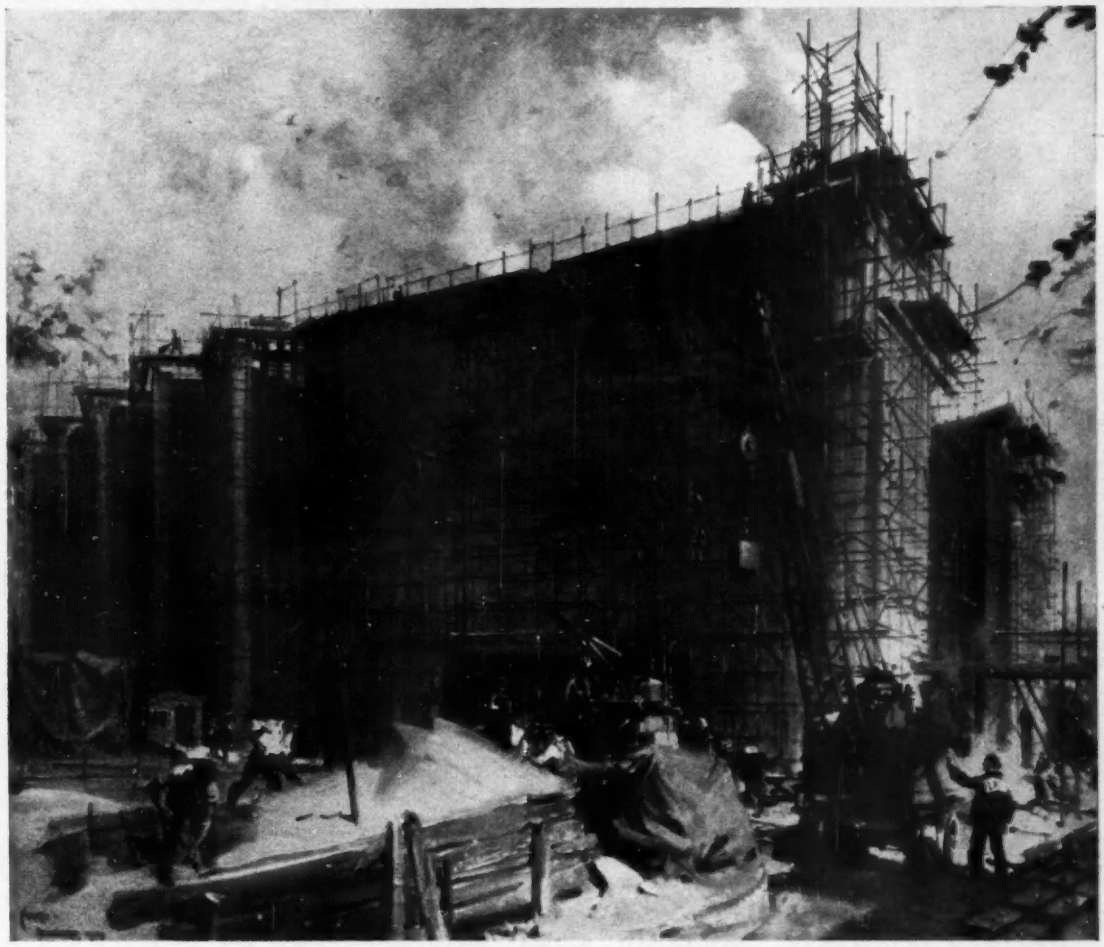
Walter Lilley & Co. Ltd.	£54,630
William H. Figgis	52,093
Kirk & Kirk Ltd.	51,053
Frank Bilton (London) Ltd.	50,480
Thomas Lowe & Sons Ltd.	48,812
E J. Lacey & Co. Ltd.	47,998
Carlton Contractors Ltd.	47,843
(A) W. H. Gaze & Sons Ltd. ...	46,782

Comparable estimate of the chief officer of the parks department is £48,000.

LONDON CC.—Provision and installation of electric water-heaters in 494 dwellings at Watling estate, Hendon.

Ellis (Kensington) Ltd.	£31,520
Stitson, White & Co. Ltd.	29,879
J. C. Spooner (Heating) Ltd. ...	28,458

LAING PROJECT



The Cathedral Church of St. Michael, Coventry under construction

From an oil painting by Terence Cuneo

Architect: Basil Spence, O.B.E, A.R.A, A.R.S.A, P.R.I.B.A.

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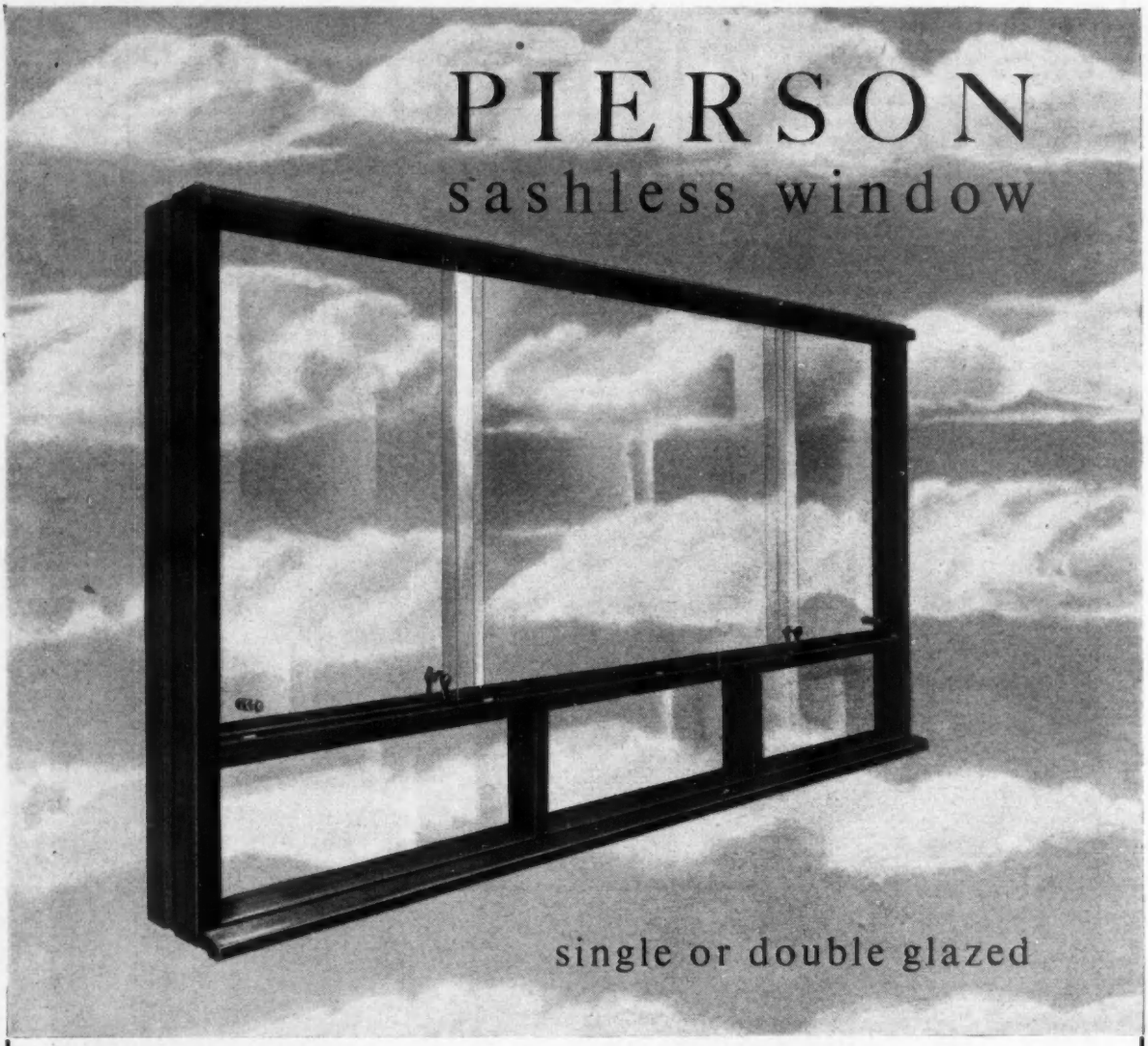

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Tweed Saw Mills, Berwick-upon-Tweed.
Telephone: Berwick 7443

PRICE BROS. & CO. (PENARTH) LTD.
Station Road, Penarth.
Telephone: Penarth 57255

HIDE & CO. (BLACKPOOL) LTD.
Squires Gate, Lytham St. Annes.
Telephone: Blackpool 42001

William Edgar & Son Ltd.	28,017
(A) F. J. Baynes & Co. Ltd.	27,617

Director of housing's comparable estimate is £27,568.

LONDON (City). — New headquarters building at Aldersgate-st. and Long-la. for the London Salvage Corps. Howell and Brooks, architects. A. Gordon Harris, quantity surveyor. R. T. James & Ptnrs., constg. engrs. (A) Holland & Hannen and Cubitts Ltd. Est. £250,000.

LONDON CC.—Construction of art and crafts room, the provision of a new central-heating system and other improvements at Shirley county prim. sch., Croydon.

M. Howard (Mitcham) Ltd.	£28,748
George Green (Beckenham) Ltd. ...	26,831
Hawkes Construction Ltd.	25,977
Truett & Steel Ltd.	24,729
Norman, Wright (Builders) Ltd. ...	24,610
S. G. & A. Agombar	24,230
(A) Grant & Partners Ltd.	23,344

Architect's comparable estimate is £23,711.

LONDON CC.—Construction at Teesdale estate extension, Bethnal Green, of 39 flats in one eleven-storey block and one two-storey block, 86 maisonettes in one six-storey block and two four-storey blocks and five houses in a terrace, together with 65 tenants' stores, 20 garages and three play spaces.

J. Jarvis & Sons Ltd.	£338,010
Y. J. Lovell & Son Ltd.	331,296
Halse & Sons Ltd.	329,664
Rush & Tompkins Ltd.	326,400
M. J. Gleeson (Contractors) Ltd. ...	324,587
W. J. Simms, Sons & Cooke Ltd. ...	320,777
Prestige & Co. Ltd.	319,950
Tersons Ltd.	315,858
Kirk & Kirk Ltd.	314,067
Rowley Bros. Ltd.	312,391
(A) Walter Lawrence & Son Ltd. ...	312,300

Comparable estimate of the appointed architects, Messrs. Howes & Jackman, is £330,900.

LONDON CC.—Adaptations at South East London General Practitioners Centre, Queens-rd., Camberwell.

Mullen & Lumsden (Maintenance) Ltd.	£32,543
F. Troy & Co. Ltd.	28,837
Poolman (Builders) Ltd.	28,213
W. J. Marston & Son Ltd.	27,719
T. R. Roberts (Builders) Ltd. ...	27,372
Robertson & Cameron (Building Contractors) Ltd.	26,574
Dix (Builders) Ltd.	26,432
(A) Collis & Co. Ltd.	26,002

Architect's comparable estimate is £29,616.

(GD) LONDON (British Railways).—New London Midland Contracts:—Kyle Stewart (Contractors) Ltd., Ardshiel-hse., Empire Way, Wembley Park, Middlesex, for new diesel maintenance depot at Marylebone.—Wilson Lovatt & Sons Ltd., Clarence-st., Wolverhampton, for construction of a new viaduct, new bridges, widening existing bridges, earthworks, drainage, roadworks and other ancillary works near Rugby Midland station.—A. J. Binns Ltd., 99/107 St. Paul's-rd., London, N1, for London district 1960 fencing renewal programme.—Edward Wood & Sons Ltd., 70 Park-st., Derby, workshop and battery charging room, pavings and external services at Chester general goods depot.—Head Wrightson Teesdale Ltd., Teesdale Ironworks, Thornaby-on-Tees, Yorks, for supply, fabrication and delivery of steelwork and precast concrete deck units for intersection bridge No. 99 on Trent Valley line.—Leonard Fairclough Ltd., 3 Chapel-st., Adlington, Lancs, for Macclesfield (Hibel Road) to Colwich line, Bridge No. 54 and Loop line (Etruria to Kidsgrove) Bridge No. 54 and lowering of roadway for Kidsgrove UDC.

(GD) LONDON (British Railways).—New London Midland contracts:—Fergus Decorations Ltd., 37/41 Bedford-row, London, WC1, for external redecoration of Euston House.—The Norwest Construction Co. Ltd., Dunnings Bridge-rd., Netherton, Liverpool 10, for new footbridge, pavings and drainage at Huskisson goods depot, Liverpool.—Ashwell & Nesbitt Ltd., 184 Oxford-rd., Manchester 13, for hot and cold water services to cleaning and watering points at Crewe South Carriage Shed.—Arundel (Contractors) Ltd., 70 Harris-st., Bradford, for cleaning and painting of Nottingham Victoria passenger station.—The Cubar Construction Co. Ltd., 1/3 Clarence-st., Manchester 2, for demolition of station buildings and erection of temporary station at Stafford.—D. B. Evans (Bilston) Ltd., Oxford-st., Bilston, Staffs, for new washing facilities and services at Grange Lane carriage depot, Birkenhead. — Harbour & General Works Ltd., 174 St. Stephen's-hse., Victoria Embankment, SW1, for lightweight and main line diesel shed at Cricklewood.

(GD) LONDON (British Railways).—Contracts placed by Eastern Region:—Heymills (Contractors) Ltd., 'Empire House,' Hanger Green, Ealing, W5, for building work in connection with the renewal of electrical distribution system (Stage V) in the Stratford area.—Messrs Higgs & Hill Ltd., Crown-wks., South Lambeth-rd., London, SW8, for demolition and reconstruction of decking and staircases to booking hall and services and erection of new span to existing steel footbridge at Lea Bridge station.—Messrs. Pirelli-General Cable Works Ltd., Southampton, for supply and installation of rolled down telecommunications cables between Liverpool Street and Bury Street Junction and main distribution frame and Hackney Downs and Chingford.—British Insulated Callender's Cables Ltd., Prescot, Lancashire, for supply and installation of telecommunications cables between Bury Street Junction and Bishop's Stortford and between Broxbourne and Hertford (East).—Messrs. Joseph Westwood & Co. Ltd., Napier Yard, West Ferry-rd., Millwall, London, E14, for supply, fabrication and delivery of steelwork for underbridge No. 1001D between Colchester and Ardleigh.

(GD) LONDON (MoW).—Contracts placed for week ended May 7:— *Dorset:* New engine bases, ducts and alterations to power house at Radio Station, Dorchester; G. J. Furneaux, 251 Barrack-rd., Christchurch, Hants. *Dumfriesshire:* Re-covering magazine roofs, at Ministry of Aviation storage depot, Eastriggs, Annan; Vulcanite Ltd., 1157 Gallowgate, Glasgow, E1. *Glamorgan:* Erection of Post Office engineering depot at Merthyr Tydfil; J. A. Crone Ltd., 35/51 Cathays-terr., Cardiff. *Hertfordshire:* Reglazing at stamp factory, Hemel Hempstead; Crittall Manufacturing Co. Ltd., 210 High Holborn, WC1. *Lancashire:* New office at Customs & Excise, North 1, Queen's Dock, Liverpool; Medway Buildings & Supplies Ltd., Phoenix Wharf, Rochester, Kent.—Alterations and additions at automatic telephone exchange, Cheetham Hill, Manchester; Roy & Partners Ltd., 64 Blackfriars-rd., Salford 3. *London:* Remodelling of post office at Branch Post Office, 65 South Molton-st., W1; H. N. Barnes Ltd., Peterbrough-rd., Fulham, SW6.—Erection, etc., of one goods lift at Royal Naval College, Greenwich, SE10; Evans Lifts Ltd., Abbey-la., Leicester.—Erection of Branch Post Office, High-st., Peckham, SE15; Whyatt (Builders) Ltd., 225 Streatham High-rd., SW16.—Erection of branch Post Office at Whetstone, N20; E. J. Lacy & Co. Ltd., Steel-rd., NW10. *Radnorshire:* Alterations and adaptations at Post Office Engineering depot, Brooklands-rd., Llandrindod Wells; J. L. Griffiths & Co., Tremont-rd., Llandrindod Wells. *Somerset:* Erection of automatic telephone exchange, Flax Bourton, nr. Bristol; E. A. Bicknell & Sons Ltd., 49 Springfield-rd., Bristol 6. *Surrey:* New changing room, etc., at Veterinary laboratory, Weybridge; Richard Boater, 243 Thamesside, Chertsey Bridge, Chertsey. *Warwickshire:* Erection of Branch Post Office at Kitts Green, Birmingham; John Bowen & Sons Ltd., George-st., Balsall Heath, Birmingham. *Yorkshire:* Heating installation at Inland Revenue Office, All Saints Bldgs., Market-st., Rotherham; Edward Broley & Son Ltd., Park-rd., Barnsley.

(GD) LONDON (MoW).—Contracts placed for week ended May 14:—*Cardiganshire:* Erection of motor transport workshop, at Post Office, Llandyssul; W. Eaves & Co. Ltd., 11 Quay-st., Haverfordwest. *Hampshire:* Conversion of boiler to oil firing, at Sea Transport Stores, Southampton; Mumford Bailey & Preston Ltd., 22A Holdenhurst-rd., Bournemouth. *Kent:* Extension at Sorting Office, Orpington; Fredk. Smith & Co. (Bldrs.) Ltd., 56/60 New Cross-rd., London, SE14. *Lancashire:* Dry cleaning at various premises, Manchester; The City Warehouse Window Cleaning Co. Ltd., 353 Chester-rd., Cornbrook, Manchester 16. *London:* Alterations and adaptations at Joint office building, Zeeta Factory, Barnes, SW13; E. Gostling (Bldrs.) Ltd., St. Clare-wks., Holly-rd., Hampton Hill, Middlesex.—Reglazing, etc., Dome at The Tate Gallery, SW1, A. J. Harrold & Co. Ltd., 182 Kensington Church-st., W8.—Occupational services at Telephone Exchange Centre, Hendon, NW4; Dennis Price Ltd., 6 Lechmere-rd., Willesden Green, NW2.—Decoration work at Ministry of Agriculture, Fisheries and Food, 3/8 Whitehall-pl., SW1; South London Decorators Ltd., 9/11 Streatham High-rd., SW16. *Middlesex:* Conversion of boiler plant at Hostel for Paraplegics, Duchess of Gloucester House, Isleworth; Hope's Heating & Engineering Ltd., 16 Berners-st., London, W1.—Medium wind tunnel at College of Aeronautics, Cranfield, and National Physical Laboratory, Teddington; Lloyd & Ross Ltd., 58 Victoria-st., SW1. *Radnorshire:* Alterations and additions at Ministry of Agriculture, Fisheries and Food, Lindens and Deauville, Llandrindod Wells; J. R. Hopton & Son, Cambrian-hse., Llandrindod Wells. *Yorkshire:* Alterations at Inland Revenue Office, Changegate House, 12/21 Low-st., Keighley; Ernest Turner Ltd., Bradford-st., Keighley.—Alterations to public office, etc., at Head Post Office. Priory-pl., Doncaster; J. Dixon (Doncaster) Ltd., Greenfield-la., Balby, Doncaster.

(GD) LONDON (War Dept.).—Contracts placed for week ended May 13:—*Flintshire* (Kinmel Park): Miscellaneous, Allan Wilson, Rhyl. *Hampshire* (Barton Stracey): Painting, Architectural Decorators Ltd., London, SW1. (Southampton): Painting, P. J. Hartel (Southern) Ltd., Southampton. (Blackdown): Miscellaneous, E. J. Logan (Putney) Ltd., London, SW15. *Kent* (Canterbury): Roadwork, P. A. Barden & Sons Ltd., Maidstone. *Lancashire* (Liverpool): Miscellaneous, G. &

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LLANRWST.—Fixed price tenders for houses, etc., for UDC. S. Colwyn Foulkes, architect. (A) Edward Jones (Contractors) Ltd. Est. £29,000.

NEWCASTLE - ON - TYNE. — Reinforced concrete structure in connection with new £400,000 neurological centre at Newcastle General Hospital for Newcastle Regional Hospital Bd. General contractors are Crudens Ltd. (A) Kleine Co. Ltd., George-st., Manchester-sq., London, W1, £49,522.

NORTH'D.—Erection of police house and section station at Rothbury for CC. (A) W. K. Brown & Son, Thropton, Rothbury.

NOTTINGHAMSHIRE.—Erection of three bridges on new Sandiacre-Stapleford by-pass for CC. (A) Gilbert Ash Ltd., £213,377.

OUNDLE & THRAPSTON.—Siteworks and erection of first instalment of 24 dwellings and nine lock-up garages, etc., at Warmington for RDC. (A) A. J. G. Potter & Sons Ltd., High-st., Stanwick, Wellingborough, Northants, £43,015.

POOLE.—Erection of 134 dwellings for BC. (A) George Wimpey & Co. Ltd., £287,000.

SALTBURN & MARSKE-BY-THE-SEA.—Two-storey block of 20 aged persons' flats at Marine-parade for UDC. E&S is R. Stroughair. R. Stroughair, quantity surveyor. (A) Wilson (Eng. Newcastle) Ltd., Longbeck Estate, Marske, £23,068.

SEDGEFIELD.—Erection of new premises for Fishburn and District Social Club. Architect is J. M. Angus, 3 Gallowgate, Newcastle-on-Tyne. (A) CWS Building Dept., Benton-rd., Newcastle-on-Tyne.

SHEFFIELD.—40 houses and 34 garages at Lindsay-rd. for TC. (A) M. J. Gleeson (Contractors) Ltd., Chesterfield-rd., Sheffield 9, £84,053.—72 houses/34 garages at Lindsay-rd. for TC. (A) J. F. Finnegan (Sheffield) Ltd., £142,000.

STAFFORD.—County record office for CC. (A) J. F. Hughes Ltd., Colman-st., Wolverhampton, £32,521.—Police station at Hednesford for CC. (A) H. M. Griffiths & Sons Ltd.—Police station at Sandon for CC. (A) Morgan Building Co. Ltd., Stoke-on-Trent.—Police headquarters at Baswich for CC. (A) George A. Polle Ltd., Newcastle, Staffs.—New instrument factory for English Electric Co. Ltd. Sir Percy Thomas & Son, architects. W. T. Hills & Co., quantity surveyors. (A) Taylor Woodrow Construction Ltd., Southall, Middx. Est. £1½m.

STOCKTON-ON-TEES. — Erection of health centre at Stockton for Durham CC. (A) A. Hughes & Co. (Stockton), Ltd., 18 Wharf-st., Stockton, £28,561.

SUNDERLAND.—Erection of church and hall at East Herrington. Charlewood & Curry, 14 Neville-st., Newcastle-on-Tyne, architects. (A) S. Hann, Cullercoats, Tynemouth.

SURREY.—Following for CC:—Erection of Pyrcroft prim. sch., Chertsey, and erection of Lorraine prim. sch., Camberley. (A) R. Holford & Co. Ltd., £40,915 and £83,405 respectively.—Additional classrooms at St. Lawrence prim. sch., Effingham, £20,961.

WESTMINSTER.—Piling and foundation works, etc., for a multi-storey parking place on site 5, 6 and 7 Audley-sq. and 5, 6 and 7 Waverton-st. for City C.

Demolition & Construction Co. Ltd.	£145,365
Richard Costain (Civil Engineering), Ltd.	125,779
Sir Robert McAlpine & Sons Ltd.	119,278
(A) John Mowlem & Co. Ltd. ...	119,053

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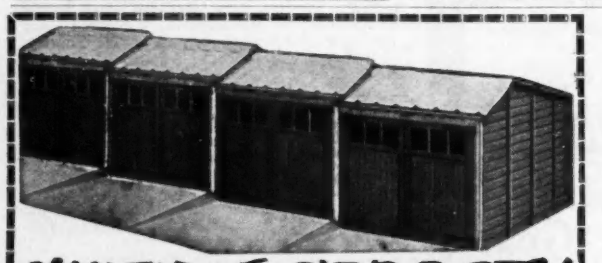

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ATTENTION ADVERTISERS

Classified advertisements in this section can be accepted up to 12 o'clock noon on the TUESDAY prior to issue. It is regretted that advertisements cannot be accepted by telephone.

CONTRACTS

SALFORD CITY.

PROPOSED HOUSE AT CHARLESTOWN RECREATION GROUND, WHIT-LANE, SALFORD, 6.

Firm Price TENDERS are invited for the proposed HOUSE at Charlestown Recreation Ground, Whit-lane, Salford, 6.

Conditions of Contract and Drawings may be inspected at, and Bill of Quantities and Form of Firm Price Tender obtained from, The City Engineer and Surveyor's Department, Town Hall, Salford, 3, on payment of a deposit of £2 2s. 0d. which will be returned on submission of a bona fide Firm Price Tender not subsequently withdrawn.

Firm Price Tenders on the prescribed form, sealed in the envelope provided and bearing no other mark or identification, must be forwarded to the undersigned so as to be received not later than 12 NOON on MONDAY, 4th JULY, 1960.

The Council does not bind itself to accept the lowest or any Firm Price Tender.

R. RIBBLESDALE THORNTON,
Town Clerk.

WOOD GREEN
BOROUGH.

BRANCH LIBRARY.

The Council invite TENDERS for the ERECTION OF A BRANCH LIBRARY at the junction of Alexandra Park-road and The Avenue.

Form of Tender, Bill of Quantities, plans and specification notes may be obtained from the Borough Engineer at the address below (where Conditions of Contract may also be inspected), upon payment of a deposit of one guinea, returnable on the submission of a bona fide Tender, provided it is not subsequently withdrawn.

Tenders, in plain sealed envelopes endorsed "Tender for Branch Library," but with no name or mark indicating the sender, must be delivered to the undersigned not later than NOON on SATURDAY, 11th June.

G. W. PLATER,
Town Clerk.

Town Hall,
Wood Green, N.22.
17th May, 1960.

BOURNEMOUTH.
COUNTY BOROUGH.

TO HEATING SUB-CONTRACTORS.

TENDERS are invited, on a "FIXED PRICE" BASIS, for the INSTALLATION OF CENTRAL HEATING PLANT for the New Boiler House at East Howe Infants' School, Hadow-road, Bournemouth.

Firms wishing to tender for this sub-contract should make application to Borough Architect, Room 106, Town Hall, Bournemouth, not later than 4th JUNE, 1960.

Tenders to be received by me not later than 10 a.m. on 20th JUNE, 1960.

A. LINDSAY CLEGG,
Town Clerk.

CANTERBURY CITY.

HOUSING CONTRACT.

Fixed Price TENDERS are invited for the ERECTION OF HOUSES AND OLD PERSONS' BUNGALOWS AND LOCK-UP GARAGES as follows:—

FIFTEEN HOUSES FOUR OLD PERSONS' BUNGALOWS. EIGHT CORNER FLATS, 12 GARAGES, at Hales-place Estate, Canterbury.

Bills of Quantities can be obtained from the undersigned upon payment of two guineas deposit. Drawings and Conditions of Contract can be inspected at my office.

Tenders to be submitted in the endorsed envelope provided not later than MONDAY, 13th JUNE, 1960.

JOHN L. BERBIERS,
City Architect.

Municipal Buildings,
Canterbury.

WOOD GREEN
BOROUGH.

PLANT NURSERY—WOLVES-LANE.

TENDERS are invited for the building works required in connection with the CONSTRUCTION OF A PLANT NURSERY at Wolves-lane.

Drawings may be inspected at, and Contract Documents obtained from, the office of the Borough Engineer, Town Hall, Wood Green, N.22, upon payment of a deposit of One Guinea, which will be refunded on receipt of a bona fide Tender, provided that it is not withdrawn.

Tenders, in plain sealed envelopes endorsed "Tender for Plant Nursery," but leaving no name or mark indicating the sender, must be returned to the undersigned not later than 12 NOON on WEDNESDAY, 15th JUNE, 1960.

G. W. PLATER,
Town Clerk.

Town Hall,
Wood Green, N.22.
17th May, 1960.

KIDDERMINSTER
BOROUGH.

GHELUVELT-AVENUE.
MAJOR REPAIRS.

TENDERS are invited on a FIXED-PRICE BASIS for MAJOR REPAIRS to existing Corporation houses in Gheluvelt-avenue and Hurcott-road, including the provision of complete new plumbing systems, windows, fencing and sundry items.

Further details and tender documents may be obtained from the office of the Borough Engineer and Surveyor, 110 Mill-street, Kidderminster, and will be available for issue on the 23rd MAY, 1960, on payment of a deposit of £2 2s., returnable on receipt of a bona fide tender.

Tenders must be sent to me not later than 12 noon on the 13th JUNE, 1960.

JOHN L. EVANS,
Town Clerk.

Town Hall,
Kidderminster.

SUNDERLAND
COUNTY BOROUGH.

TENDERS are invited for the ERECTION OF THE HUMBLEDON TRAINING CENTRE, Sunderland.

Bills of Quantities and Form of Tender obtainable from Borough Architect, Grange House, Stockton-road, Sunderland, on payment of deposit fee of £2 2s., refundable on receipt of a bona fide tender. Cheques payable to "Sunderland Corporation."

Sealed tenders endorsed "Tender for Erection of Humbledon Training Centre," must be received at my office, Town Hall, not later than 20th JUNE, 1960.

G. S. McINTYRE,
Town Clerk.

MITCHAM
BOROUGH.

EXTERNAL PAINTING.

TENDERS are invited for the EXTERNAL PAINTING OF 324 FLATS in seven blocks (4 storey and 6 storey) on the Pollards Hill Estate, Mitcham.

Form of Tender, Bill of Quantities and other contract documents may be obtained from the Borough Engineer and Surveyor, Town Hall, Mitcham, at whose office the General Conditions of Contract may be inspected.

Tenders must be delivered to the undersigned in the envelopes provided by 12 NOON on SATURDAY, 4th JUNE, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

H. H. WHITE,
Town Clerk.

Town Hall,
Mitcham.
19th May, 1960.

HEREFORD CITY.

NEWTON FARM ESTATE,
SECTION V.

TENDERS are invited for the ERECTION OF 159 3-BEDROOM TRADITIONAL TYPE HOUSES AND 154 GARAGES on a site at Newton Farm, Hereford.

Form of Tender, bills of quantities and general conditions of contract may be obtained from Norman Roberts, A.R.I.B.A., City Architect, Town Hall, Hereford, on payment of a deposit of £2 2s., which will be returned following submission of a bona fide tender.

Drawings are available for inspection during normal hours of business.

Tenders must be returned in the envelopes provided and endorsed "Newton Farm—Section V," to reach the undersigned not later than 12 noon on FRIDAY, the 24th JUNE, 1960.

The lowest or any tender will not necessarily be accepted.

T. B. FELTHAM,
Town Clerk.

Town Hall,
Hereford.

SOUTHEND-ON-SEA
COUNTY BOROUGH.

PROPOSED ALTERATIONS AND EXTENSIONS TO FLAREPATH RESTAURANT, SOUTHEND MUNICIPAL AIRPORT.
TENDERS.

Contractors desiring to Tender for this project are invited to submit their names to the Borough Architect, 30 Alexandra-street, Southend-on-Sea, not later than FRIDAY, 3rd JUNE, 1960, accompanied by details of similar works previously undertaken and names of Architects from whom references may be obtained.

The Contract comprises the erection of a single-storey restaurant of about 8,000 feet super of timber construction with timber flat and pitched roofs comprising restaurant, bar, kitchen, and stores and works incidental thereto.

From such applications a selected list of Tenderers will be made by the committee and those selected will be notified and will be required to make a payment of a deposit of £2 0s. 0d.

Upon receipt of this deposit, the Bills of Quantities and Form of Tender will be forwarded and it is anticipated that these will be available at the middle of June, 1960. The deposit of £2 0s. 0d. will be refunded on receipt of a bona fide Tender OR the return of all loaned documents.

The Corporation do not bind themselves to accept the lowest or any Tender.

ARCHIBALD GLEN,
Town Clerk.

SOUTHAMPTON
COUNTY BOROUGH.

Southampton C.B.C. invites TENDERS for the following contract on bills of quantities available on 30th MAY, 1960:

136 FLATS IN TRADITIONAL CONSTRUCTION IN FOUR FIVE-STOREY BLOCKS TYPES A.5 AND E.5 at Redbridge Triangle.

Application for tender document should be received by the Borough Engineer and Surveyor, Civic Centre, Southampton, by 10 a.m. on MONDAY, 30th MAY, 1960.

CHESTER-LE-STREET
RURAL DISTRICT COUNCIL.

FIXED-PRICE TENDERS are invited for the REDEVELOPMENT AND EXTENSION OF A CLEARANCE AREA at Ouston, near Birtley.

The contract, which it is proposed to let as a whole, will include:

(a) THE DEMOLITION OF APPROXIMATELY 90 EXISTING STONE-BUILT COTTAGES IN TERRACES.

(b) THE CONSTRUCTION OF CONCRETE ROADWORKS AND THE LAYING OF SOIL AND SURFACE WATER DRAINS.

(c) THE ERECTION OF 122 SINGLE-STOREY AND TWO-STOREY DWELLINGS.

The demolition work will be phased with the house erections in order to rehouse the occupants of the old cottages, and the contract may have to be carried out in two stages.

Bills of quantities, etc., will be available by the 24th MAY, 1960, and experienced contractors desirous of tendering should apply to the Council's Architect, Mr. F. Bowman, A.R.I.B.A., Estate Office, Birtley, Co. Durham, accompanied by a deposit of £3 3s., returnable only on the submission of a bona fide tender.

Tenders are to be POSTED, in the endorsed envelopes supplied, to be received by the undersigned not later than 12 noon, TUESDAY, 5th JULY, 1960.

The Council do not bind themselves to accept the lowest or any tender.

J. SANDERS,
Clerk of the Council.

Union Offices,
Chester-le-Street,
Co. Durham.
18th May, 1960.

BEDFORD
BOROUGH.

24 FLATS AND 18 HOUSES,
EASTCOTTS ESTATE.

TENDERS are invited for the above buildings to be erected on the Eastcotts Estate at the junction of Cardington-road and Lovell-road.

The period for tendering will be a minimum of three weeks.

Applications for tender documents should be made to F. W. Dewkes, Esq., Borough Engineer and Surveyor, Newnham House, Horne-lane, Bedford, accompanied by a deposit of £3 3s. which is returnable (on receipt of a bona fide Tender not subsequently withdrawn) not later than FRIDAY, 3rd JUNE, 1960.

F. W. DEWKES, Esq., B.Sc.(Eng.), A.M.I.C.E., M.I.Mun.E., A.M.T.P.I.,
Borough Engineer and Surveyor.

Newnham House,
Horne-lane,
Bedford.
May, 1960.

WIMBLEDON
BOROUGH.

REPAIR AND MAINTENANCE OF BOUNDARY WALLS.

TENDERS are invited for the REPAIR AND MAINTENANCE OF CERTAIN BOUNDARY WALLS enclosing public recreation grounds and other properties in Wimbledon and at Randalls Park Estate, Leatherhead.

Tender documents from the Open Spaces and Cemeteries Superintendent, Cemetery Office, Gap-road, Wimbledon.

CANTERBURY CITY.

ERECTION OF NEW LABORATORY AT SIMON LANGTON GRAMMAR SCHOOL FOR GIRLS, CANTERBURY.

Building Contractors wishing to TENDER are requested to make application to the undersigned not later than FRIDAY, 3rd JUNE, 1960, with a deposit cheque of two guineas. The contract will be on a fixed price basis.

Bills of Quantities will be available early in June, 1960.

JOHN L. BERBIERS,
City Architect.

Municipal Buildings,
Canterbury.

CREWKERNE
URBAN DISTRICT COUNCIL.

PERMANENT HOUSING.

TENDERS are invited for the ERECTION OF 56 HOUSES AND BUNGALOWS in Southmead-crescent, Crewkerne, together with ROAD, SEWER and SITE WORKS.

Applications for Bills of Quantities and Forms of Tender should be made to the Council's Architects, Messrs. Petter Warren & Roydon Cooper, F.R.I.B.A., The Old Oxford Inn, West Hendford, Yeovil, and accompanied by a deposit of two guineas (cheques to be made payable to Crewkerne Urban District Council) which will be returned on receipt of a bona fide Tender not subsequently withdrawn.

Drawings and Form of Contract may be inspected at the offices of the Architects.

Tenders to be sent in a plain sealed envelope, endorsed "Crewkerne Housing." The Council do not bind themselves to accept the lowest or any Tender.

K. WATSON,
Clerk of the Council.

Council Offices,
Crewkerne.
19th May, 1960.

HARROW
BOROUGH.

TENDERS are invited for the ERECTION OF BOUNDARY FENCES AND BRICK WALLS and ANCILLARY WORKS at Elm Park-road, Pinner. The work comprises approx. 200 lin. yds. of brick walls and approx. 50 lin. yds. of timber fencing and gates.

Drawings and Conditions of Contract may be inspected at the office of, and a copy of the Form of Tender, Specification and Bills of Quantities obtained on application to, the Borough Engineer, at the Council Offices, 48 Uxbridge-road, Stanmore, Middlesex, on payment of Two Pounds by crossed cheque, made payable to the Harrow Corporation, returnable where a bona fide Tender reaches me within the prescribed time.

Tenders on prescribed forms, enclosed in a plain envelope, bearing no indication of the sender and endorsed "Tender—Boundary Walls—Elm Park-road," to be delivered to my office not later than 10 a.m. on TUESDAY, 14th JUNE, 1960.

The Council do not bind themselves to accept the lowest, or any, Tender.

D. PRITCHARD,
Town Clerk.

Council Offices,
Harrow Weald Lodge,
Harrow, Middlesex.

EXETER CITY.
COUNCIL.

ERECTION OF MARKET, CORN EXCHANGE AND BASEMENT CAR PARK,
FORE-STREET, EXETER.
GENERAL BUILDING WORKS.

Contractors desirous of TENDERING for the above work should forward a deposit of FIVE GUINEAS to the undersigned not later than the 13th JUNE, 1960.

Bills of Quantities, etc., together with instructions for tendering, will then be supplied, and plans will be available for inspection at the office of the undersigned.

The deposit will be refunded on receipt of a bona fide tender which is not subsequently withdrawn, and on the receipt of the documents.

Canvassing of members of the Council will disqualify.

The Council do not bind themselves to accept the lowest or any tender.

HAROLD B. ROWE, F.R.I.B.A., A.M.I.Struct.E.,
City Architect.

Municipal Offices,
Exeter.

STOCKTON-ON-TEES
BOROUGH.

EDUCATION COMMITTEE.
PROPOSED 2 F.E. INFANTS' SCHOOL AT FAIRFIELD.

TENDERS are invited from building contractors for the ERECTION OF AN INFANTS' SCHOOL to accommodate 240 pupils at Fairfield.

Form of Tender, Conditions of Tender and Bills of Quantities may be obtained from the Borough Architect, 28 The Square, Stockton-on-Tees, on deposit of £1 1s., which will be refunded on receipt of a bona fide Tender or the return of the documents.

Drawings may be inspected at the office of the Borough Architect during normal office hours.

Tenders to be sent to the undersigned in the envelope provided, not bearing any mark indicating the sender, by 12 NOON on MONDAY, the 27th JUNE, 1960.

JOHN B. HAWORTH,
Town Clerk.

Barclays Bank Chambers,
49 High-street,
Stockton-on-Tees.

WISBECH
BOROUGH.

COUNCIL OFFICES, CHURCH-TERRACE, HEATING SCHEME

TENDERS are invited for a HEATING SCHEME for the Council Offices, Church-terrace, Wisbech.

Further particulars, plans and specification may be obtained from the Borough Engineer.

The Tender to be returned in an envelope marked "Tender, Heating Scheme, Church-terrace," to the undersigned not later than NOON 30th JUNE, 1960.

The Contract will be subject to the Standing Orders of the Council in respect of Contracts, and the Council does not bind itself to accept the lowest or any Tender.

N. E. DEWICK,
Town Clerk.

Town Hall,
Wisbech, Cambs.
May, 1960.

HARTLEY WINTNEY
RURAL DISTRICT COUNCIL.

MAIN DRAINAGE OF EVERSLEY, LOWER COMMON.
STAGE ONE.

TENDERS are invited for the CONSTRUCTION OF A MAIN DRAINAGE SCHEME for the Lower Common area of the Village of Eversley, comprising a small SEWAGE DISPOSAL WORKS, 2 MAIN PUMPING STATIONS, and the laying of approximately 2,600 yards lineal of 6 in. and 9 in. diameter SOIL SEWERS.

Contractors wishing to tender should apply for Tender Documents to the Engineer and Surveyor, Council Offices, Hartley Wintney, Hants.

The Council does not bind itself to accept the lowest or any other Tender.

H. C. K. BROADHURST,
Clerk of the Council.

WEST RIDING OF YORKSHIRE
COUNTY COUNCIL.

TENDERS are invited for INTERNAL AND EXTERNAL PAINTING at the County Welfare establishment, Northgate Lodge, Pontefract.

Applications to Tender must be addressed to the Divisional Architect, Bishopgarth, Westfield-road, Wakefield, and received not later than Friday 10th June, 1960.

The Contract will be under the County Council's General Conditions of Contract.

Sealed Tenders must be addressed to me, the undersigned and received at Room 5, County Hall, Wakefield, not later than 12 NOON on MONDAY, the 27th JUNE, 1960.

BERNARD KENYON
Clerk of the County Council.

ABERDARE
URBAN DISTRICT COUNCIL.

ERECTION OF HOUSES.

TENDERS are invited for the ERECTION OF 70 DWELLINGS, of various sizes, at the Maesgwyn site, Cwmdare, Aberdare.

The first stage of the preparation works is almost complete. Tenderers must submit full details with specifications and plans of the houses offered and show clearly on a site plan the disposition of the various types of houses and appurtenant works.

The site plan and a list of special requirements and conditions which have to be observed by the successful contractor may be obtained from the Engineer and Surveyor of the Council, Vestry Hall, Aberdare, on payment of a deposit of two guineas which will be returned on receipt of a bona fide Tender and all loaned documents.

Tenders, in plain sealed envelopes bearing no mark or indication of the sender but endorsed "Maesgwyn Housing Site," must reach me on or before FRIDAY, 17th JUNE, 1960.

D. G. JAMES,
Clerk of the Council.

Town Hall,
Aberdare.
17th May, 1960.

RICKMANSWORTH
URBAN DISTRICT COUNCIL.

EXTERNAL PAINTING.

TENDERS are invited from experienced firms for the EXTERNAL PAINTING AND INCIDENTAL REPAIRS to 232 COUNCIL HOUSES AND 26 GARAGES on the Dugdales, Parrotts and Berry-lane Housing Estates, divided into six contracts of 12, 46, 33, 47, 55 and 39 houses respectively. Tenders may be submitted for one or all contracts but the commencing dates will be simultaneous. Specifications and Form of Tender may be obtained from the Engineer and Surveyor, Council Offices, Rickmansworth, on payment of £2 2s., returnable on receipt of a bona fide Tender. Tenders should be deposited in plain sealed envelope endorsed "Painting Contracts—Housing," with the undersigned not later than NOON, THURSDAY, 9th JUNE, 1960. The Council does not bind itself to accept the lowest or any Tender.

C. G. RANSOME WILLIAMS,
Clerk of the Council.

Council Offices,
High-street,
Rickmansworth, Herts.
16th May, 1960.

HARROW
BOROUGH.

TENDERS are invited for the ERECTION OF BOUNDARY WALLS AND FENCES and ANCILLARY WORKS at Uxbridge-road, Stanmore. The work comprises the removal of trees and bushes to clear new fence lines, approx. 150 lin. yds. of brick wall and approx. 600 lin. yds. of fencing and gates.

Drawings and Conditions of Contract may be inspected at the office of, and a copy of the Form of Tender, Specification and Bills of Quantities obtained on application to, the Borough Engineer, at the Council Offices, 48 Uxbridge-road, Stanmore, Middlesex, on payment of Two Pounds by crossed cheque, made payable to the Harrow Corporation, returnable where a bona fide Tender reaches me within the prescribed time.

Tenders on prescribed forms, enclosed in a plain envelope, bearing no indication of the sender and endorsed "Tender—Boundary Walls, Uxbridge-road, Stanmore," to be delivered to my office not later than 10 a.m. on TUESDAY, 14th JUNE, 1960.

The Council do not bind themselves to accept the lowest, or any, Tender.

D. PRITCHARD,
Town Clerk.

Council Offices,
Harrow Weald Lodge,
Harrow, Middlesex.

EASTLEIGH
BOROUGH.

VELMORE HOUSING ESTATE.
STAGE VIII.
4 DWELLINGS.

The Corporation invite FIRM-PRICE TENDERS for the ERECTION OF TWO PAIRS OF FOUR-BEDROOM TYPE HOUSES together with paths, fences and various ancillary works.

Plans, Specifications and Forms of Tender may be obtained from E. J. Tapley, M.I.Mun.E., Borough Engineer and Surveyor, Town Hall, Eastleigh, on payment of a deposit of Two Guineas, which sum will be refunded on receipt of a bona fide Tender not subsequently withdrawn, together with the return of all documents supplied.

Tenders are to be sealed in the special envelopes provided and are to be delivered to the office of the undersigned at or before noon on MONDAY, the 11th JULY, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

ROLAND J. RODDIS,
Town Clerk.

Town Hall,
Eastleigh,
Hants.
20.5.60.

WEYMOUTH AND MELCOMBE REGIS
BOROUGH.

The Corporation propose to invite FIRM-PRICE TENDERS for the CONSTRUCTION OF A SPORTS PAVILION, Marsh Playing Fields, off Knightsdale-road, Weymouth, and are preparing a list of selective contractors.

The Form of Contract will be the R.I.B.A. Standard Form without Quantities, but with Clause 25A (Fluctuations) deleted.

Contractors desirous of being included in this list are invited to apply to the undersigned not later than 12 noon, THURSDAY, 9th JUNE, 1960.

E. J. JONES,
Town Clerk.

Town Clerk's Office,
Weymouth.
May, 1960.

BANBURY
BOROUGH.

DEMOLITION OF SLUM CLEARANCE PROPERTIES. ERECTION OF ONE PAIR OF BUNGALOWS, GRIMSBURY.

The Council invite TENDERS for:—

(a) The DEMOLITION OF TWO THREE-STOREY TERRACE HOUSES AND ONE BAKEHOUSE, TOGETHER WITH SINGLE-STOREY OUTBUILDINGS.

(b) The CONSTRUCTION OF ONE PAIR OF THREE BEDROOM BUNGALOWS, TOGETHER WITH EXTERNAL SERVICES AND SITE WORKS.

All at the Council's site at the junction of East-street and Old Grimsbury-road, Banbury.

Plans may be inspected and Tender documents obtained upon written application to the Borough Engineer and Surveyor Mr. J. E. Newton, A.M.I.C.E., A.M.I.Mun.E., Municipal Buildings, Marlborough-road, Banbury, on payment of a deposit of two guineas, which will be refunded upon receipt of a bona fide Tender for the works or the return of all documents supplied.

Contractors may Tender for either or both contracts and Tenders must be delivered to the undersigned not later than 12 NOON on FRIDAY, the 24th JUNE, 1960, in the endorsed envelope provided, which must not bear any name or mark indicating the sender.

The Council do not bind themselves to accept the lowest or any Tender.

FREDERICK G. BOYS,
Town Clerk.

Municipal Buildings,
Banbury.
19th May, 1960.

EAST GRINSTEAD
URBAN DISTRICT COUNCIL.

BUILDING WORKS.

FIXED-PRICE TENDERS are invited for the MODERNISATION OF NOS. 80 AND 82 QUEENS-ROAD, EAST GRINSTEAD, incorporating a two-storey addition comprising kitchen and bathroom together with maintenance repairs and internal and external redecoration works.

Drawings, Specification and Form of Tender obtainable on application to Mr. B. J. Cornelius, F.R.I.C.S., Surveyor to the Council, upon payment of a deposit of Two Guineas, returnable on receipt of a bona fide tender and the return of all documents.

Tenders returnable by noon on SATURDAY, 25th JUNE, 1960, to the undersigned in the envelope provided.

The Council does not bind itself to accept the lowest or any tender.

H. C. JONES,
Clerk of the Council.

East Court,
East Grinstead,
Sussex.

LEEDS
REGIONAL HOSPITAL BOARD.

TO HEATING CONTRACTORS.

FIXED-PRICE TENDERS are invited for carrying out MODIFICATIONS TO H.W.S. CALORIFIER PLANT (including taking over forward order for calorifier already placed by the Board) at Menston Hospital, Menston, Ilkley.

Applications for Form of Tender and Specification and Drawings accompanied by a deposit of £2 2s (which will be refunded on receipt of a bona fide tender and other contract documents) must be made to the Architect to the Board at the undermentioned address not later than 12 noon on FRIDAY, 10th JUNE, 1960. Cheques should be made payable to the "Leeds Regional Hospital Board" and crossed.

A copy of the drawings, Conditions of Tender and Conditions of Contract may be inspected at the office of the Architect to the Board, or at the office of Messrs. Ernest Griffiths and Son, Consultant Engineers, Kinders, Bromborough, Cheshire.

Sealed Tenders, in the endorsed envelope provided, must be delivered to the undersigned not later than 12 noon on WEDNESDAY, 6th JULY, 1960.

The Board does not bind itself to accept the lowest or any tender.

Wm. A. SHEE,
Secretary to the Board.

Park Parade,
Harrogate,
Yorks.

DURHAM
COUNTY COUNCIL.

TENDERS invited:—

Hebburn Technical College: (a) EXTENSIONS; (b) SUPPLY AND ERECTION OF STRUCTURAL STEELWORK TO EXTENSIONS.

Jarrow Dunn-street New County School: ERECTION.

Ryhope Grammar School: EXTENSIONS to provide a 4 Form Entry Grammar Technical School.

Ryton Modern School: EXTENSIONS to provide a 4 Form Entry School.

Washington Grammar Technical School: KITCHEN AND DINING ROOM EXTENSIONS.

STANDARD POLICE HOUSES—TYPE "D", West-lane, Chester-le-Street (Phase 2): ERECTION OF ONE PAIR SEMI-DETACHED SENIOR POLICE OFFICERS' HOUSES WITH TWO GARAGES.

Application for further details to County Architect, South-street, Durham, not later than 8th JUNE, 1960.

J. K. HOPE,
Clerk of the County Council.

Shire Hall,
Durham.

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A complete range . . . 3½T, 5E, 7E, 7S, 10S, 12S and 14S with choice of steel wheels or pneumatics. Folding Hydraulic Weigher and Drag Loader Shovel available for 7S, 10S, 12S and 14S models. Illustrated literature and prices on request

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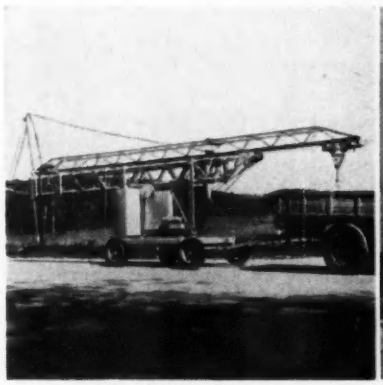
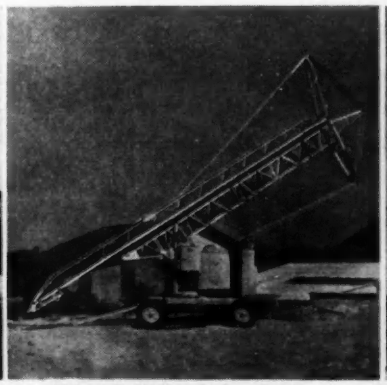
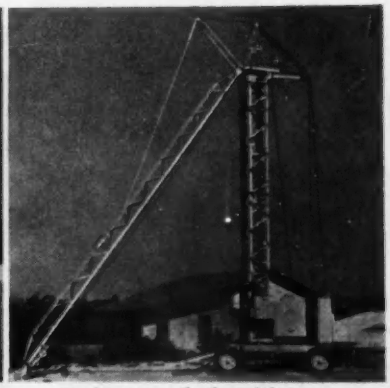


Arrival on site . . .



"Mast & Jib" unit is raised . . .



reaches a vertical position . . .

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JUST LOOK AT THESE STAR FEATURES

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S.W.L. AT MAXIMUM RADIUS (34 FEET) 8 CWT.

HEIGHT UNDER HOOK:	SADDLE JIB:	41 FEET
" " " :	RAISED 45° :	59 FEET
" " " :	RAISED 60° :	66 FEET
HOISTING SPEED	:	100 FEET/MIN
TRAVERSING SPEED	:	82 FEET/MIN
SLEWING SPEED	:	1 REV. PER MIN.

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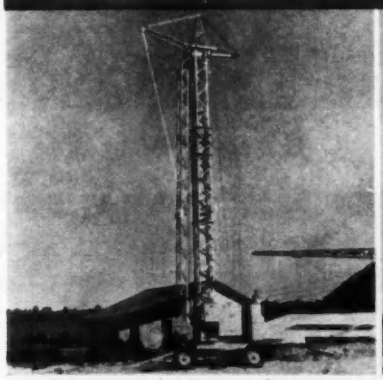
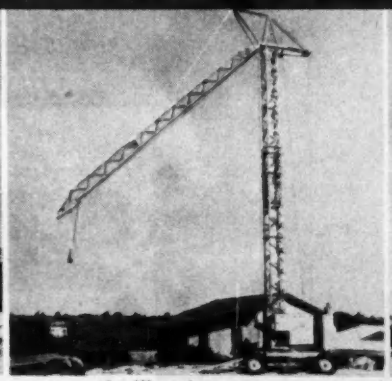
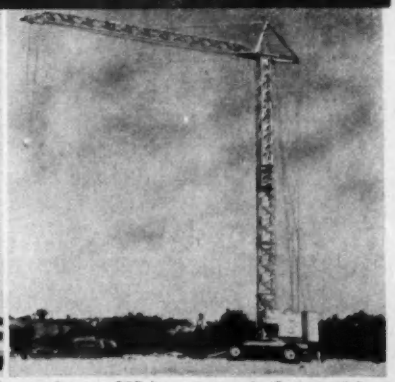


the inner mast begins to telescope . . .



the jib swings out . .



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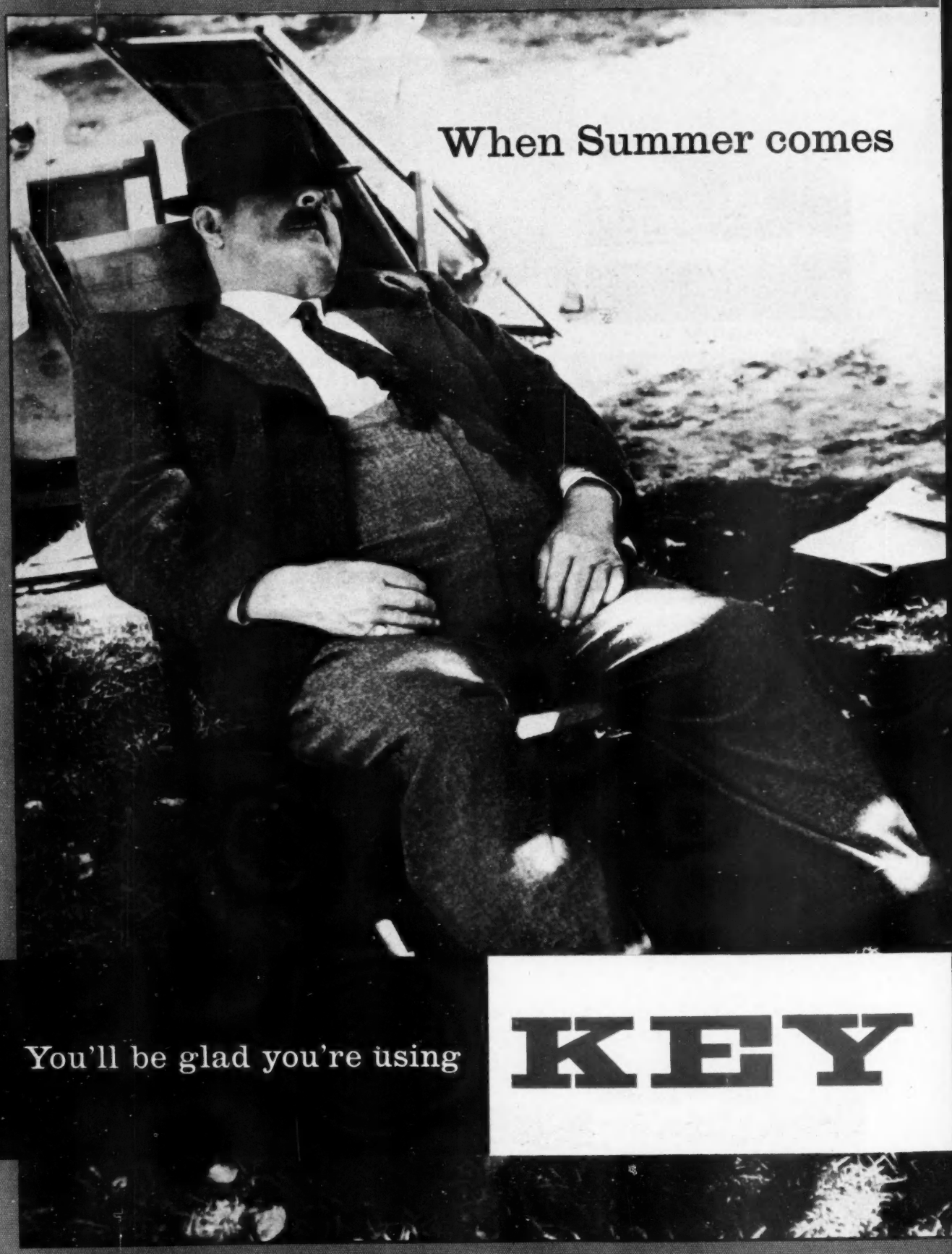
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An anticyclone is stationary over the roof of your car. Even Old Trafford has a heat haze. And everybody you meet makes you hotter still . . . *just the weather for building, eh?* Tell them all your concreting's held up, and they'll say you're never satisfied.

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- British Standard 'Kite' marking on every pipe
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- Pioneer manufacture in Britain

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Larkfield, Nr. Maidstone, Kent. Telephone: Maidstone 7-7777 Extension 728

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BIRMINGHAM CITY.

TO BUILDING CONTRACTORS.

BRANCH LIBRARY,
STRATFORD-ROAD,
HALL GREEN, BIRMINGHAM.

The Public Libraries Committee propose to invite FIRM PRICE TENDERS for the ERECTION OF THE ABOVE. Firms wishing to be considered should submit their names to the City Architect in envelopes endorsed "Branch Library, Hall Green, Birmingham—Application." Applications should be received by the City Architect, Civic Centre, Birmingham, 1, not later than NOON on THURSDAY, the 2nd JUNE, 1960.

The work comprises the construction of a single-storey library with an assembly hall on the first floor.

Firms will be selected, from whom Tenders will be invited in the immediate future, and the successful contractor should be in a position to commence work immediately on receipt of acceptance of his Tender.

T. H. PARKINSON,
Town Clerk.

The Council House,
Birmingham, 1.

CARLISLE CITY

CONSTRUCTION OF
CIVIC CENTRE.

Contractors with suitable experience are invited to apply to be placed on a list of selected tenderers for the construction of the first phase of the CIVIC CENTRE SCHEME comprising municipal offices (multi-storey construction), civic suite and council chamber. Tenders will be on a fixed price basis and the Corporation have in mind the completion of this phase of the scheme within a period of approximately two years. They also expect to be able to enter into a contract within a few months' time. The Architects are Messrs. Charles B. Pearson & Son, 24 Loxford-street, All Saints, Manchester, 15, and Lancaster. Applications to be placed on the list to be received by me not later than twelve noon, 10th JUNE, 1960.

H. D. A. ROBERTSON,
Town Clerk.

15 Fisher-street,
Carlisle.

HAVANT AND WATERLOO
URBAN DISTRICT COUNCIL.

Invite TENDERS for the ERECTION OF A PUBLIC CONVENIENCE at Sea Front-road (opposite Chichester-avenue), Hayling Island.

Conditions of Contract may be inspected at the offices of the Engineer and Surveyor, 1 Park-road North Havant, from whom Drawings, Specification and Form of Tender may be obtained.

No Tender will be received except in a plain sealed envelope which must bear the word "Tender" followed by the subject to which it relates, but shall not bear any name or mark indicating the sender.

Tenders must be delivered not later than NOON on THURSDAY, the 16th JUNE, 1960 to the Clerk of the Council, Town Hall, Havant.

The Council do not bind themselves to accept the lowest or any Tender.

BOURNEMOUTH
COUNTY BOROUGH.

TO BUILDING CONTRACTORS.

(CONTRACT K.6, PAGET-ROAD, KINSON.)

TENDERS are invited, on a fixed-price basis, for the ERECTION OF THREE PAIRS OF ONE - BEDROOM BUNGALOWS, TYPE A.1, and Ancillary Works.

Drawings, Specification and Form of Tender, available 30th MAY, 1960, are obtainable from the Borough Architect's Office (Room 106), Town Hall, Bournemouth, on payment of two guineas deposit, refundable on receipt of a bona fide tender not subsequently withdrawn, and the return of all documents supplied.

Tenders to be received by me not later than 10 a.m., 21st JUNE, 1960.

A. LINDSAY CLEGG,
Town Clerk.

PORTSMOUTH CITY

TENDERS, based on Bills of Quantities, are invited for:—

(a) NEW SCIENCE LABORATORY AND PREPARATION ROOM, North End Secondary Modern School.

(b) 36 FLATS, TWO SHOPS AND 25 GARAGES, Eastern-road.

(c) 36 FLATS AND 14 GARAGES, Southampton-road.

Contractors desirous of Tendering should apply for documents to the City Architect, 1 Western-parade, Portsmouth, not later than the 7th JUNE, 1960, stating in which Contract(s) they are interested and enclosing a deposit of £1 for each Contract returnable on receipt of bona fide Tender(s) or the return of all the documents WITHIN THREE DAYS.

The Council do not bind themselves to accept the lowest or any Tender. It is a condition of Tendering that the Contractor shall, at the date of his Tender have in his employment not less than one indentured apprentice to every eight craftsmen who were employed by him on the previous 1st January.

V. BLANCHARD,
Town Clerk.

BERKSHIRE AND READING
JOINT FIRE AUTHORITY.

TENDERS are invited for REPAIR WORK TO THE ROOF OF THE FIRE STATION at The Broadway, Didcot.

Specifications and forms of tender can be obtained on application to The County Architect, Wilton House, Parkside-road, Reading, enclosing a deposit of £2 2s., which will be returned on receipt of a bona fide tender, not subsequently withdrawn.

Tenders must be returned in the envelope provided by Noon on TUESDAY, 14th JUNE, 1960, and the Authority does not bind itself to accept the lowest or any tender.

WREXHAM
BOROUGH.

50 DWELLINGS, TANAT-WAY, SUTTON-DRIVE AND ARCHERS-WAY SITES.

FIXED-PRICE TENDERS are invited for the SUPPLY AND DELIVERY of the following:

(a) IRONMONGERY;
(b) SANITARY FITTINGS;
(c) FAIENCE FIREPLACE SURROUNDS;
(d) WOOD WINDOWS.

Tender Forms and Specification obtained from Borough Engineer and Surveyor, 31 Chester-street, Wrexham.

Completed Tenders to be returned to the undersigned in the envelopes provided by not later than 12 noon, FRIDAY, 24th JUNE, 1960. The Council does not bind itself to accept the lowest or any tender.

PHILIP J. WALTERS,
Town Clerk.

Guildhall,
Wrexham.
May, 1960.

GLOUCESTERSHIRE
COUNTY COUNCIL.

ERECTION OF NEW SECONDARY MODERN SCHOOL AT WINCHCOMBE.

Applications for Bills of Quantities with deposit of £2 2s., returnable upon receipt of bona fide fixed-price tender, to reach County Architect, Shire Hall, Gloucester, by 2nd JUNE.

The work will be in traditional steel frame construction with pitched roof, having a total floor area of approximately 25,000 sq. ft.

The Council does not bind itself to accept the lowest or any tender.

GUY H. DAVIS,
Clerk of the County Council.

CAERNARVONSHIRE
COUNTY COUNCIL.

TENDERS invited for ERECTION OF UNIT BUILDING comprising ELECTRICITY SUB-STATION and SCHOOL EQUIPMENT STORE at rear of School, Town Ditch-road, Conway. Plans and Specification from County Surveyor, County Offices, Caernarvon, on receipt of two guineas deposit. Tenders in plain sealed envelopes to Clerk of County Council, County Offices, Caernarvon, by 10th JUNE. Council not bound to accept lowest or any tender.

ESHER
URBAN DISTRICT COUNCIL.

EXTERNAL REPAINTING OF 74 COUNCIL HOUSES AND NINE GARAGES. CONTRACT 305.

TENDERS are invited from Painting Contractors for the EXTERNAL REPAINTING OF 58 HOUSES, 12 FLATS, FOUR BUNGALOWS AND NINE GARAGES at Blair-avenue and Cranbrook-drive, Esher.

The form of Tender, conditions of contract and specifications may be obtained from the Engineer and Surveyor, Council Offices, Esher, on payment of a deposit of one guinea, which will be refunded on receipt of a bona fide Tender, together with the return of all documents in good condition.

Tenders on the prescribed form, enclosed in the envelope provided, endorsed "Contract No. 305—External Repainting" and bearing no name or mark indicating the sender, must be returned to the undersigned and received by him not later than 5 p.m. on FRIDAY, 17th JUNE, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

FREDERICK EDWARDS,
Clerk of the Council.

Council Offices,
Esher.

STEPNEY M.B.C.

(A) Spital-street Housing Scheme:

TENDERS are invited for the SUPPLYING AND LAYING OF SEMTEX THERMOPLASTIC TILES IN THE 57 DWELLINGS being erected at this Scheme.

(B) Council Housing Estates:

Tenders are invited for the EXTERIOR REDECORATION OF 573 DWELLINGS.

Forms of Tender, with conditions, etc., obtainable from the Borough Engineer and Surveyor, Municipal Offices, 227-233 Commercial-road, E.1, on payment of deposit of £2 2s. 0d.

Closing date for Tenders: NOON, MONDAY, 20th JUNE, 1960.

WILFRED REEVE,
Town Clerk.

SOUTHPORT
COUNTY BOROUGH.

The Council invite TENDERS for PAINTING THE EXTERIORS OF HOUSES ON THE HOUSING ESTATES. The work is divided into seven contracts. Contractors may Tender for any number of contracts.

The Specification can be obtained from the Borough Architect and Town Planning Officer's Department, 99-105 Lord-street, on payment of One Guinea which sum will be refunded on receipt of a bona fide Tender.

Tenderers are to be delivered to the undersigned by 17th JUNE, 1960.

R. EDGAR PERRINS,
Town Clerk.

LEEDS
REGIONAL HOSPITAL BOARD.

TO BUILDING CONTRACTORS.

FIXED PRICE TENDERS are invited for carrying out EXTENSIONS TO WARD M.5 at Bootham Park Hospital, York.

Applications for Form of Tender and Bills of Quantities accompanied by a deposit of £2 2s. (which will be refunded on receipt of a bona fide Tender and other contract documents), must be made to the Architect to the Board at the undermentioned address not later than 12 NOON on THURSDAY, 9th JUNE, 1960. Cheques should be made payable to the "Leeds Regional Hospital Board" and crossed.

A copy of the drawings, Conditions of Tender and Conditions of Contract may be inspected at the office of the Architect to the Board or at the Hospital.

Bills of Quantities will be ready early in June and three weeks will be allowed for tendering.

The Board does not bind itself to accept the lowest or any Tender.

WM. A. SHEE,
Secretary to the Board.

Park-parade,
Harrogate,
Yorks.

ESSEX
COUNTY COUNCIL

(1) WALTHAMSTOW WILLIAM FITT SECONDARY SCHOOL. FIRST INSTALMENT.
(2) RAYLEIGH GROVE COUNTY INFANTS' SCHOOL.
(3) CHADWELL ST. MARY HERRINGHAM COUNTY INFANTS' SCHOOL.

Contractors wishing to TENDER for the ABOVE should forward their names, from which panels will be chosen and provided with tender documents.

(1) The building will be single and two storey in load bearing brickwork and steel frame construction, estimated cost £111,500. The private architects for this contract are Tooley & Foster, Buckhurst Hill.

(2) and (3). The contracts comprise the construction of foundations, plumbing, drainage, finishings, external works, etc. The buildings will be of prefabricated timber construction and will be supplied and erected by Sub-Contractors, already nominated, within the contracts. The value of each of the whole contracts is £43,500. These are firm price contracts.

Separate applications for each contract to reach the undersigned not later than 4th JUNE, 1960.

H. CONOLLY,
C.B.E., F.R.I.B.A.,
County Architect.

County Hall,
Chelmsford.

BROMLEY
COMMITTEE FOR EDUCATION.

COUNTY GRAMMAR SCHOOL FOR BOYS,
HAYES-LANE, BROMLEY.

Contractors having suitable experience of School Contracts, details of which are to be submitted, are invited to apply by WEDNESDAY, 8th JUNE, 1960, for consideration to TENDER for ADDITIONS to the above school.

The work consists of CONVERSION OF EXISTING SERVERY INTO KITCHEN WITH SINGLE-STOREY EXTENSION TO PROVIDE STORES AND ADDITIONAL DINING ROOM.

Drawings and Conditions of Contract may be inspected at the office of the Borough Engineer, to whom applications to tender should be sent.

Tenders to be returned by FRIDAY, 8th JULY, 1960.

H. T. SMITH,
Borough Education Officer.

Municipal Buildings,
Bromley,
Kent.
23rd May, 1960.

DAGENHAM
BOROUGH.

ROOF TILING,
LIMBOURNE-AVENUE ESTATE.

TENDERS are invited for SUPPLYING AND FIXING ROOF TILING TO FOURTEEN BLOCKS OF NEW FOUR-STOREY AND TWO-STOREY DWELLINGS (102 UNITS).

Specifications and forms of tender may be obtained from the Borough Engineer and Surveyor.

Tenders, in the official envelopes provided, must be delivered to the undersigned by the 11th JUNE, 1960.

KEITH LAUDER,
Town Clerk.

Civic Centre,
Dagenham.

CROYDON
COUNTY BOROUGH.

NOTICE TO BUILDERS.

Contractors who have the organisation and labour force to carry out the work expeditiously and who wish to TENDER for the BUILDING OF A NEW TWO-STOREY WEIGHTS AND MEASURES OFFICE BLOCK at Canterbury-road, should send their names for the necessary documents to the Borough Engineer, Town Hall, Croydon, within seven days of this advertisement. Closing date for tenders 5th JULY, 1960.

E. TABERNER,
Town Clerk.

SURREY
NORTHCOTE-CRESCENT, WEST HORSLEY.

ERECTION OF 24 DWELLINGS.

Messrs. Bland, Welch & Co., Ltd., are proposing to invite TENDERS in June, 1960, from competent building contractors for the ERECTION OF THE ABOVE MENTIONED.

Contractors wishing to be considered are requested to apply for an application form which should be returned to the undersigned giving requisite details.

Tender documents will be made available to selected Contractors on deposit of £4 4s. 0d. to be repaid only on receipt of a bona fide Tender not subsequently withdrawn.

M. G. ENSER, F.C.A.,
Secretary.

Sackville House,
143-9 Fenchurch-street,
London, E.C.3.

BROMYARD HOSPITAL
WORCESTER-ROAD,
BROMYARD.

REPAIRS TO BUILDING FABRIC.

TENDERS are invited for RENDERING THE EXTERNAL WALLS, ETC., OF THE HOSPITAL with two coats of cement and sand and cullamix with Tyrolean finish.

Detailed specification available on application to Superintendent Engineer (Burghill & North), Burghill Hospital, Hereford.

Tenders in sealed envelope endorsed Building Repairs, Bromyard Hospital to be addressed to the Chairman, Herefordshire Hospital Management Committee, Victoria House, Eign-street, Hereford, must be received not later than 10 a.m. on 17th JUNE.

DUNSTABLE
BOROUGH.

TO DECORATORS.

The Council invite TENDERS for the EXTERIOR REDECORATION of the following dwellings:

Contract No. 1, 96 HOUSES AND FLATS, Brewers Hill Estate.

Contract No. 2, 80 HOUSES, Downside Estate.

Contractors may tender for either or both Contracts or for Sections of Contract No. 1.

Specifications and Forms of Tender may be obtained from the Housing Estates Manager, Priory House, Dunstable, on payment of £1 1s. for each set of documents, which will be refunded on receipt of a bona fide tender or tenders not subsequently withdrawn.

Tenders must be delivered not later than SATURDAY, 11th JUNE, 1960, and must be addressed to the UNDERSIGNED in the endorsed envelope provided and must not bear any mark or name indicating the Sender.

The Council does not bind itself to accept the lowest (or any) Tender, and reserves the right to accept any Section of any Tender and not necessarily the whole Tender.

JACK SMITH,
Town Clerk.

Municipal Offices,
Dunstable,
Beds.
24th May, 1960.

MANSFIELD
BOROUGH.

Ladybrook Housing Estate—Site 5E.
Contract 26/J—10 Traditional Dwellings.

TENDERS are invited for the ERECTION OF 10 THREE BEDROOM TRADITIONAL DWELLINGS.

Drawings may be inspected and Bills of Quantities, Forms of Tender, General Conditions of Contract and other relevant documents obtained from Mr. E. T. Crowe, B.Sc., A.M.I.C.E., Borough Engineer and Surveyor, Carr Bank, Mansfield on payment of a deposit of two guineas (£2 2s. 0d.) made payable to the Town Council of Mansfield, which will be refunded on receipt of a bona fide Tender not subsequently withdrawn or the return of all loaned documents. Documents will be available on and after FRIDAY, 27th MAY, 1960.

Tenders will only be considered if they are submitted in the envelope provided, which will be suitably endorsed and addressed. This must be sealed and delivered to the undersigned not later than 12 NOON on WEDNESDAY, 15th JUNE, 1960.

The Corporation does not bind itself to accept the lowest or any Tender and the provisional acceptance of a Tender will be subject to the approval of the Ministry of Housing and Local Government.

A. C. SHEPHERD,
Town Clerk.

Carr Bank,
Mansfield.

HAMPSTEAD
METROPOLITAN BOROUGH.

Builders and Contractors wishing to TENDER for either or both of the following contracts should send their names to me by 15th JUNE, 1960, with statement of work already carried out.

24-28 Flask-walk: DEMOLITION OF EXISTING BUILDINGS AND CONSTRUCTION OF THREE 3-STOREY TERRACE HOUSES ON RESTRICTED SITE.

148-150 Broadhurst-gardens: CONSTRUCTION OF ONE 4-STOREY BLOCK OF 8 FLATS.

Tenderers will be selected and the Council may add others. B. H. WILSON, Town Clerk (B), Town Hall, Haverstock Hill, N.W.3.

WANDSWORTH
METROPOLITAN BOROUGH.

FLATS AT STREATHAM.

Contractors wishing to TENDER for ERECTION OF A 3-STOREY BLOCK OF 23 FLATS at Streatham High-road should submit names to me by 8th JUNE, 1960, giving details of experience, plant and technical and supervisory staff available together with names of two technical and two financial referees. Bills of quantities will be issued to selected contractors in due course.

Drawings may be examined at Borough Engineer and Architect's Department at this address.

J. NOEL MARTIN,
Town Clerk.

Municipal Buildings,
Wandsworth,
S.W.18.

BRENTFORD AND CHISWICK
BOROUGH.

14 HEATHFIELD-TERRACE.

TENDERS, to be submitted not later than 12 NOON, MONDAY, 27th JUNE, 1960, are invited for the DEMOLITION OF NO. 14 HEATHFIELD-TERRACE, CHISWICK AND THE ERECTION OF SINGLE STOREY TEMPORARY OFFICES on the site thereof.

Form of Tender, drawings and specification can be obtained from the Borough Surveyor, Town Hall, Chiswick, W.4.

W. F. J. CHURCH,
Town Clerk.

Town Hall,
Chiswick, W.4.

MAIDSTONE
BOROUGH.

PROPOSED
HOSTELS FOR OLD PERSONS,
13 LONDON-ROAD AND
107 TONBRIDGE-ROAD.

TENDERS are invited from bona fide building contractors for the above CONVERSIONS.

Contractors desirous of submitting tenders for one or both of these schemes should apply to the Borough Engineer, Palace-avenue, Maidstone, not later than 12 noon on FRIDAY, 3rd JUNE, 1960.

Tender documents will be circulated during June and late July.

Contractors should clearly state for which scheme they wish to tender.

T. SCHOLES,
Town Clerk.

13 Tonbridge-road,
Maidstone.
20th May, 1960.

WIMBLEDON
BOROUGH.

TENDERS are invited for the ERECTION OF A GRANDSTAND WITH DRESSING ACCOMMODATION.

Bills of Quantities from Borough Engineer and Surveyor's Department, Town Hall, Wimbledon, S.W.19, on receipt of £2 2s. 0d. by 8th JUNE, 1960, which will be refunded on receipt of a bona fide Tender.

SWINDON
BOROUGH.

QUEEN'S PARK DEVELOPMENT.

TENDERS are to be invited for WORKS IN CONNECTION WITH THE DEVELOPMENT OF QUEEN'S PARK. These comprise the erection of a Public Convenience and a Parks Depot, together with stone retaining walls paved terraces and pergola framings.

Contractors who wish to be considered for inclusion in the list of those who will be invited to Tender should forward their names to the Borough Architect, Civic Offices, Swindon, not later than 4th JUNE, 1960.

D. MURRAY JOHN,
Town Clerk.

Civic Offices,
Swindon.
20th May, 1960.

STEPNEY
BOROUGH COUNCIL.

REBUILDING OF WHITECHAPEL PUBLIC BATHS.

TENDERS are invited for the SUPPLY AND DELIVERY OF 106 METAL CHANGING CUBICLES, SEATS ETC. Forms of Tender, with conditions, etc., obtainable from the Borough Engineer and Surveyor, 227-233 Commercial-road, E.1.

Closing date for Tenders, MONDAY, 20th JUNE, 1960.

WILFRED REEVE,
Town Clerk.

ATTENTION ADVERTISERS

Classified advertisements in this section can be accepted up to 12 o'clock noon on the TUESDAY prior to issue. It is regretted that advertisements cannot be accepted by telephone.

PUBLIC APPOINTMENTS

BUCKS
COUNTY COUNCIL.

Applications are invited for the following appointments in the County Architect's Department:—

3 ASSISTANT ARCHITECTS, Special Scale, £785-£1,070 p.a.

1 ASSISTANT QUANTITY SURVEYOR, A.P.T. Grade III, £880-£1,065 p.a.

1 ASSISTANT QUANTITY SURVEYOR, A.P.T. Grade I, £610-£765 p.a.

1 ASSISTANT HEATING ENGINEER, A.P.T. Grade I, £610-£765 p.a.

1 JUNIOR ASSISTANT (ENGINEERING), General Division, £240-£595 p.a.

The appointments are superannuable and subject to medical examination, and applicants should be suitably qualified for architectural appointment.

A weekly allowance of 25s. and return fare home once every two months may be paid for six months to newly appointed married officers of the Council unable to find accommodation.

Applications, on forms provided, must be returned by 6th JUNE, 1960.

F. B. POOLEY,
County Architect.

County Offices,
Aylesbury,
Bucks.

NEWCASTLE
REGIONAL HOSPITAL BOARD.

ASHINGTON HOSPITAL.
ERECTION OF NEW WARD BLOCK.
CLERK OF WORKS.

Applications are invited for the appointment of TEMPORARY CLERK OF WORKS to supervise the erection of the above building under the direction of the Regional Architect, Mr. P. H. Knighton, M.B.E., A.R.I.B.A.

The major part of the work will consist of a 4-storey block of reinforced concrete construction, framed above ground floor level and with reinforced concrete floors and roofs, the frame being infilled with brick panel walls faced with brick and slate. The remainder of the contract will consist of an adjoining single-storey reception unit of brick construction and the total floor area of the whole new building will be approximately 36,000 square feet.

Applicants for the post must possess a thorough knowledge of the building trade and have had previous experience as a Clerk of Works. They should also have had experience of reinforced concrete construction and of specialised engineering services. Membership of the Institute of Clerks of Works or possession of the Clerks of Works' Diploma of the Association of Building Technicians would be an advantage.

Work on the site is about to commence (contract value approximately £220,000) and the appointment will be for approximately 21 months.

The salary will be at a fixed rate between £15 15s. to £21 per week which will be decided according to qualifications and practical experience.

Applications, stating age, qualifications, previous experience and date when available, together with the names of three architects to whom reference may be made, should be enclosed in an envelope endorsed "Clerk of Works, Ashington Hospital," and must be forwarded to the Secretary of the Board, Benfield-road, Newcastle upon Tyne, 6, not later than 2nd JUNE, 1960.

EAST RIDING OF
YORKSHIRE COUNTY COUNCIL.

Applications are invited for the appointment of ASSISTANT ARCHITECTS on the staff of the County Architect.

The salary will be in accordance with Grade A.P.T. IV of the N.J.C. Scales (£1,065 to £1,220 per annum).

Applications giving particulars of qualifications, experience, age, past and present appointments with salaries, together with the names of three referees should be sent to the County Architect, County Hall, Beverley—not later than SATURDAY, 11th JUNE, 1960.

Assistance towards removal, lodging and travelling expenses may be granted.

THOMAS STEPHENSON,
Clerk of the Council.

WORCESTER
CITY.

APPOINTMENT OF
TEMPORARY CLERK OF WORKS.
HOUSING.

Applications are invited from men with considerable experience in the building trade for this temporary appointment within A.P.T. Grade II (salary £765-£880).

The successful candidate will be required to assist in the supervision of house-building contracts in various parts of the City.

The appointment, which is superannuable, is expected to last at least 3 years and is subject to a medical examination.

Applications, stating age, qualifications and experience and giving the names of two referees, are to be sent to the City Engineer and Surveyor, 22 Bridge-street, Worcester, not later than the 7th JUNE, 1960.

BERTRAM WEBSTER,
Town Clerk.

Guildhall,
Worcester.

POOLE
BOROUGH.

APPOINTMENT OF
WORKS MANAGER.

Applications are invited for the appointment of MANAGER of the Corporation's Works Department employing approximately 200 and carrying out contract work for the Corporation in competition with outside contractors.

Salary: Grade C, £1,385-£1,620; plus £150 per annum car allowance. Full particulars and application form from me to be returned by 3rd JUNE, 1960.

J. G. HILLIER,
Town Clerk.

Municipal Buildings,
Poole.

DEWSBURY
COUNTY BOROUGH.

BOROUGH ARCHITECT AND
BUILDINGS SURVEYOR'S
DEPARTMENT.

Applications are invited for the following appointments within the scope of the grades stated:—

(a) PRINCIPAL ASSISTANT ARCHITECT (Housing and General Section). A.P.T. Grade V (£1,220-£1,375 p.a.).

(b) ASSISTANT ARCHITECT (Education Section). A.P.T. Grade IV (£1,065-£1,220 p.a.).

Applicants should be A.R.I.B.A.

The appointments will be subject to one month's notice on either side and to the provisions of the Local Government Superannuation Acts. Housing accommodation may be made available if required.

Applications, stating age, education, qualifications, full particulars of training and experience, together with copies of two recent testimonials, should be sent to the undersigned not later than WEDNESDAY, 15th JUNE, 1960, in envelopes endorsed "Appointment of ....."

A. NORMAN JAMES,
Town Clerk.

Town Hall,
Dewsbury.
23rd May, 1960.

DERBY
COUNTY BOROUGH.

BOROUGH ARCHITECT'S
DEPARTMENT.

(a) SENIOR ASSISTANT ARCHITECT, A.P.T. Grade IV. (£1,065-£1,220 per annum.) Qualifications: A.R.I.B.A.

(b) SENIOR ASSISTANT ARCHITECT, Special Grade. (£785-£1,070 per annum.) Qualifications: A.R.I.B.A.

(c) JUNIOR ARCHITECT, General Division. (£210-£595 per annum.) Qualifications: Probationer R.I.B.A.

Or

ASSISTANT ARCHITECT, A.P.T. Grade I. (£610-£765 per annum.) Qualifications: Intermediate R.I.B.A.

(d) SENIOR QUANTITY SURVEYOR, A.P.T. Grade III-IV. (£880-£1,220 per annum.) Qualifications: A.R.I.C.S. (Quantities) or A.I.Q.S. or A.I.A.S. with appropriate experience.

(e) JUNIOR QUANTITY SURVEYOR, General Division. (£210-£595 per annum.) Qualifications: Student member R.I.C.S. with previous experience in Quantity Surveyor's Office.

Or

ASSISTANT QUANTITY SURVEYOR, A.P.T. Grade I. (£610-£765 per annum.) Qualifications: Intermediate R.I.C.S. with good experience in working up Bills of Quantities and Final Accounts, measuring on site and taking off for small works.

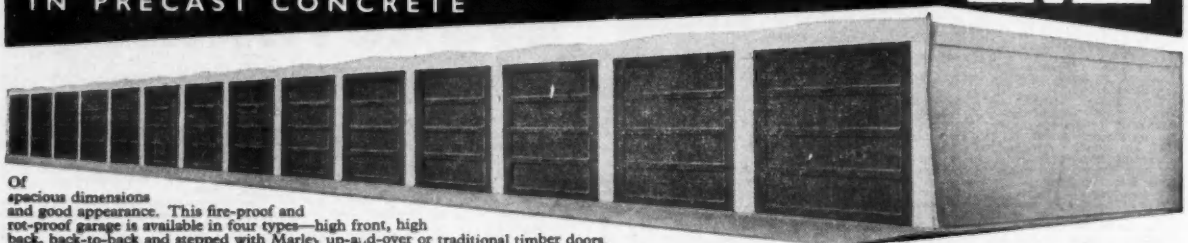
Commencing salary according to qualifications and experience. Permanent superannuable appointments, subject to one month's notice and to medical examination. National Conditions of Service.

Forms of application obtainable from and to be returned to the Borough Architect, The Council House, Corporation-street Derby, not later than WEDNESDAY, 8th JUNE, 1960.

G. H. EMLYN JONES,
Town Clerk.

10th May, 1960.

MARLEY MULTIPLE GARAGES
IN PRECAST CONCRETE



Of spacious dimensions and good appearance. This fire-proof and rot-proof garage is available in four types—high front, high back, back-to-back and stepped with Marley up-and-over or traditional timber doors. Low initial cost. Virtually maintenance free. *Marley will supply and deliver only or supply and erect. Installed for hundreds of Local Authorities.* Site work can also be undertaken, if required. We shall be pleased to submit quotations on request. Marley make the best garages.
MARLEY CONCRETE LIMITED Dept. H4, Peasmarsh, Guildford, Surrey (Head Office) Guildford 69171. Shurdington, Nr. Cheltenham, Glos. Shurdington 334/5. Hatchpond Road, Waterloo, Poole, Dorset. Broadstone 626. London Showrooms: 251 Tottenham Court Road, W.1.

Ready for use- and so easy to handle!

FOR SO MANY CONSTRUCTIONAL PROBLEMS

RESOBOARD

Wood chips bonded with a synthetic resin glue—excellent core material for veneers or plastic. Sound absorbent heat resisting.

RESOPLY

Agba both sides with a core of wood chips bonded with a synthetic resin glue. Can be used as it is on normal woodworking machinery with standard tools.

RESOSHELF

Ready-for-use shelving board Agba both sides and one long edge on a resin-bonded wood chip core. Needs no planing, sanding or smoothing, has no unsightly knots.

STRONG
RELIABLE
ECONOMICAL
AND SAFE
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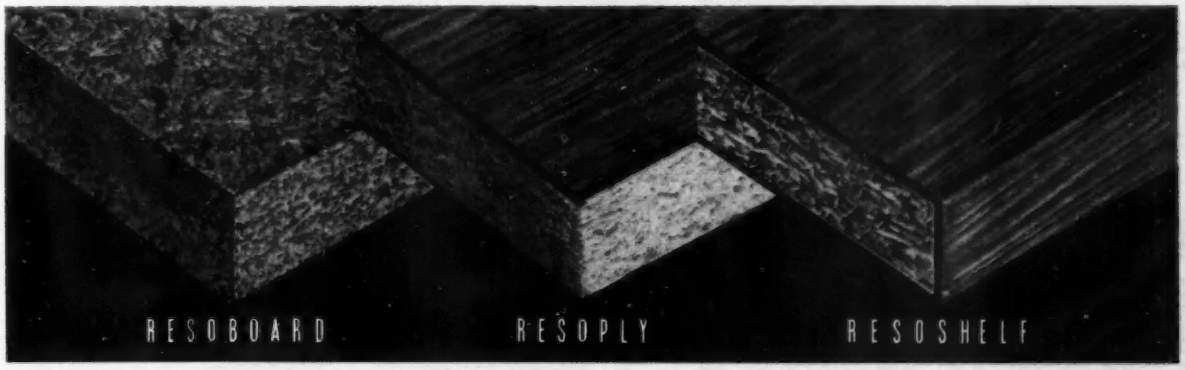
SPLIT
WARP
OR BOW
IDEAL FOR
PARTITIONS
SHELVES
COUNTERS
EXHIBITION
STANDS
ETC. ETC.



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MANCHESTER REGIONAL HOSPITAL BOARD

Architectural, Surveying and Engineering Staff

A substantial expansion of the hospital capital building programme offers valuable opportunities to ambitious Architects, Surveyors and Engineers. Vacancies exist in the following posts :—

(a) Assistant Regional Architect	£1825/2175 a year
(b) Principal Assistant Architects (Scale II)	£1655/2035 a year
(c) Senior Assistant Architects Senior Assistant Quantity Surveyors	£1300/1600 a year
(d) Assistant Architects Assistant Surveyors (Land & Quantity)	£905/1310 a year
(e) Architectural Assistants Surveying Assistants (Land & Quantity)	£625/900 a year
(f) Architectural Draughtsmen	£475/685 a year
(g) Engineers (Electrical, Mechanical, and Heating and Ventilating)	£910/1600 a year
(h) Engineering Assistants Engineering Draughtsmen	£600/1070 a year

Candidates for posts under (a), (b), (c), (d) and (g) should possess full professional qualifications and for posts under (e) and (h) intermediate qualifications. Architectural Draughtsmen must have had at least three years' previous experience. All posts superannuable. Application forms, obtainable from

The Secretary, Manchester Regional Hospital Board, Cheetwood Road, Manchester, 8,

should be returned by **30th June, 1960.**

KING'S LYNN
BOROUGH.

HOUSING ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of ASSISTANT QUANTITY SURVEYOR. Grade A.P.T. II (£765-£880 per annum).

Candidates should have passed the appropriate intermediate examination, and be able to assist in the preparation of Bills of Quantities, Valuations and measurement of works in progress and settlement of Final Accounts.

Consideration will be given to the provision of housing accommodation.

The appointment is superannuable and subject to the National Scheme of Conditions of Service, and to medical examination.

Applications, giving age and full particulars of experience and previous appointments, and naming two referees, should be addressed to G. Holmes, A.R.I.B.A., Housing Architect, Clifton House, Queen-street, King's Lynn, not later than FRIDAY, 17th JUNE, 1960.

Canvassing disqualifies.

E. W. GOCHER,
Town Clerk.

Town Hall,
King's Lynn,
Norfolk.

Amended Advertisement

LEYTON
BOROUGH.

Municipal Borough in Essex.
Population approx. 100,000.

BOROUGH ENGINEER'S DEPARTMENT.
APPOINTMENT OF WORKS MANAGER.

Applications are invited for the appointment of WORKS MANAGER at a salary within Grade A.P.T. V—£1,220-£1,375 per annum, plus London Weighting—£45 per annum.

Applicants must have had considerable experience in the building industry including bonus and incentive schemes. The person appointed will be primarily responsible for the organisation, direction and expansion of the Direct Labour Building Section of the Borough Engineer's Department. The duties will include the supervision of all works carried out by direct labour.

Essential user car allowance will be payable and favourable consideration will be given to the provision of housing accommodation.

Particulars and conditions of the appointment may be obtained on application to the Borough Engineer, Town Hall, Leyton, London, E.10, by whom completed applications must be received not later than TUESDAY, 14th JUNE, 1960.

Applicants replying to the previous advertisement will be considered and need not re-apply.

D. J. OSBORNE,
Town Clerk.

Town Hall,
Leyton,
London, E.10.
13th May, 1960.

EAST ANGLIAN
REGIONAL HOSPITAL BOARD.

PROPOSED NEW HOSPITAL AT PETERBOROUGH.
CLERK OF WORKS.

TEMPORARY CLERK OF WORKS to work under supervision of Senior Clerk of Works in connection with erection of new hospital (350-400 beds). Work will be carried out in phases under direction of Regional Architect, Guy Aldis, A.R.I.B.A., A.A.Dipl., first phase consisting of erection of Boiler House Block incorporating mortuary, post-mortem unit animal houses and workshops. Appointment expected to be of several years' duration. Salary £800-£1,050 per annum.

Applicants must possess thorough knowledge of all aspects of building trade and must have had extensive experience as Clerks of Works on multi-storey reinforced concrete framed buildings. Membership of Institute of Clerks of Works or possession of Clerk of Works Diploma of Association of Building Technicians an advantage.

Applications, stating age, qualifications, previous experience and names of 3 referees (2 of whom should be architects), to Secretary of Board, 117 Chesterton Road, Cambridge, by 13th JUNE, 1960.

NORTHAMPTONSHIRE
COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications for posts at Grade A.P.T. III (£880-£1,065) or A.P.T. II (£765-£880) are invited from candidates with either of the necessary qualifications :—

*(a) as BUILDING MAINTENANCE SURVEYORS, or
(b) as ARCHITECTURAL ASSISTANTS with some ability and experience in design for the major building programme.

*For these posts a car travelling allowance will be payable in accordance with the County Council's approved scale.

A weekly sum of 25s. by way of temporary additional salary will be payable, subject to review quarterly, to a married officer unable to find a house locally.

Details giving age, education, qualifications and experience, with a copy of a recent testimonial, should be sent in an envelope marked "Staff" to the County Architect, County Hall, Northampton, by 11th JUNE.

J. ALAN TURNER,
Clerk of the County Council.

County Hall,
Northampton.

EAST SUSSEX
COUNTY COUNCIL.

Applications are invited for the appointment of an ASSISTANT ARCHITECT, Special Grade, £785-£1,070, on the permanent staff of the Architect's Department.

Applications, giving the names of two persons to whom reference may be made to be sent to the County Architect, County Hall, Lewes, by the 8th JUNE, 1960.

HACKNEY
METROPOLITAN BOROUGH.

ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the following permanent appointments in the Architectural Section of the Department :

(a) TECHNICAL ASSISTANT (BUILDING), Grade A.P.T. III (£880-£1,065).

(b) TECHNICAL ASSISTANT (BUILDING), Grade A.P.T. II (£765-£880).

For appointment (a) preference will be given to candidates who hold the Higher National Certificate in Building or who have passed the Intermediate Examinations of the R.I.C.S.

For appointment (b) preference will be given to candidates who hold the Ordinary National Certificate in Building or a comparable technical qualification.

Duties in both cases will be mainly concerned with specifying and supervising works of repair, maintenance and improvements to housing estates and public buildings.

In all cases appropriate London Weighting allowance is payable in addition and commencing salaries will be according to training, qualifications and experience. Staff canteen. Alternate Saturdays. Post-entry educational training facilities.

Application forms obtainable from Town Clerk, Town Hall, Hackney, E.8, returnable by 9 a.m., 7th JUNE, 1960.

BUCKINGHAMSHIRE
COUNTY COUNCIL.

Applications are invited for the following appointments in the South-East and North Bucks Area Offices of the County Planning Department :—

(a) 1 SENIOR PLANNING ASSISTANT. Grade A.P.T. IV (£1,065-£1,220) to work at Slough.

(b) 1 PLANNING ASSISTANT. Special Scale (£785-£1,070) to work at Amersham.

(c) 2 DRAUGHTSMEN/PLANNING ASSISTANTS. Grade A.P.T. I (£610-£765), one to work at Slough, one to work at Bletchley.

Candidates for post (a) must be Corporate Members of the Town Planning Institute and preference will be given to those holding an additional recognised qualification. They must have had considerable experience covering both county problems and urban development.

Candidates for post (b) must be Corporate Members of the Town Planning Institute with considerable experience in all aspects of statutory planning, development control and planning procedure.

Candidates for posts (c) should have had training in a Planning, Architectural, Surveying or Engineering Office.

The commencing salary for each appointment will be according to qualifications and experience.

The appointments are superannuable and subject to medical examinations.

A weekly allowance of 25s. and return fare home, once every two months, may be paid for six months to married officers of the Council unable to find housing accommodation.

Forms of application may be obtained from the County Planning Officer, County Offices, Aylesbury, to whom completed applications must be returned by FRIDAY, 24th JUNE, 1960.

R. E. MILLARD,
Clerk of the County Council.

County Hall,
Aylesbury.
May, 1960.

ASHINGTON
URBAN DISTRICT COUNCIL.

APPOINTMENT OF ASSISTANT ARCHITECT.

Applications are invited for the above appointment at a salary in accordance with A.P.T. Grade III (£880-£1,065) or within the Special Grade (£785-£1,070 per annum) according to qualifications and experience.

Housing accommodation will be available if required

Applicants should have general experience in the preparation of specifications for Municipal housing schemes and should have passed the Intermediate or Final Examination of the R.I.B.A.

Forms of application may be obtained from the Engineer and Surveyor's Department, Council Offices, Ashington, Northumberland, returnable by 31st MAY, 1960.

JOHN KENT,
Clerk to the Council.

STRUCTURAL
ENGINEERS.

ENGINEERS Required in Architect's Department, L.C.C., up to £1,135 (under review).

(a) STRUCTURAL ENGINEERING DIVISION.—Extensive programme includes multi-storey flats, schools, offices, warehouses and other buildings.

(b) STRUCTURAL ENGINEERING DIVISION.—To deal with applications in respect of special structures under Part IV of London Building Act (A) Act, 1939, and constructional by-laws. Interesting work in involving consideration of unconventional forms of construction.

(c) DISTRICT SURVEYOR'S SERVICE.—Work mainly outside involving negotiations with Architects, Engineers and Surveyors and supervision of works in progress.

Good prospects in all these aspects of the Council's work. Application form and particulars from Hubert Bennett, F.R.I.B.A., Architect to Council (EK/B/495/5C), County Hall, S.E.1.

BUILDING SURVEYORS

Architect's Department, L.C.C., has vacancies in Building Regulation Division and District Surveyor's Service for work in connection with applications under London Building Acts and by-laws. District Surveyor's offices are located in Metropolitan Boroughs and work involves negotiations with developers and supervision of works in progress.

Up to £1,135 (under review) commencing according to qualifications and experience. Application form and particulars from Hubert Bennett, F.R.I.B.A., Architect to Council (EK/B/494/5C), County Hall, S.E.1.

CORNWALL
COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Applications are invited for the following permanent appointments :—

SENIOR ASSISTANT QUANTITY SURVEYORS, Grade A.P.T. IV (£1,065-£1,220) and ASSISTANT QUANTITY SURVEYORS, Grade A.P.T. II (£765-£880).

Applications, together with the names of two persons to whom reference may be made, should be sent to Mr. F. K. Hicklin, County Architect, County Hall, Truro, not later than FRIDAY, 10th JUNE, 1960.

E. T. VERGER,
Clerk of the County Council.

NEWCASTLE UPON TYNE
CITY AND COUNTY.

APPOINTMENT OF DEPUTY CITY ARCHITECT.

Applications are invited for the appointment of DEPUTY CITY ARCHITECT at a salary of £1,953 6s. 8d. per annum, rising by three annual increments to a maximum of £2,176 13s. 4d. per annum.

Applicants must be Members of the Royal Institute of British Architects, and should have had wide experience of the architectural work of a Local Authority, including Housing, Educational and other Public Buildings.

The appointment will be subject to the National Conditions of Service as adopted by the City Council, to the provisions of the Local Government Superannuation Acts, 1937-1953, and to three months' notice on either side. The successful candidate will be required to pass a medical examination.

Application forms and full particulars may be obtained from George Kenyon, A.R.I.B.A., A.M.T.P.I., City Architect, 18 Cloth Market, Newcastle upon Tyne, 1, to whom they must be returned, endorsed "Deputy City Architect" on or before MONDAY, 20th JUNE, 1960.

Canvassing in any form will be a disqualification.

JOHN ATKINSON,
Town Clerk.

Town Hall,
Newcastle upon Tyne, 1.
12th May, 1960.

MANCHESTER
UNIVERSITY.

Applications are invited for the post of LECTURER IN ARCHITECTURE from candidates with professional membership of the Royal Institute of British Architects and not less than three years of practical experience. Salary on a scale (at present under review) £900 to £1,650 per annum; initial salary according to qualifications and experience. Membership of the F.S.S.U. and Children's Allowance Scheme. Applications should be sent not later than 25th JUNE, 1960, to the Registrar, the University, Manchester 13, from whom further particulars and forms of application may be obtained.

ELSTREE
RURAL DISTRICT COUNCIL.

APPOINTMENT OF TEMPORARY ARCHITECTURAL ASSISTANT.

Applications are invited for the above temporary appointment in the Department of the Engineer and Surveyor, for a period of not less than two years, on work in connection with the design and erection of a proposed Public Hall, Covered Swimming Pool and other Civic Centre buildings.

Salary within Special Grade, £785 to £1,070 per annum (plus London Weighting—maximum £45); commencing salary to be determined according to experience.

Candidates should have passed the Final Examination of the R.I.B.A. or equivalent.

The appointment will be subject to the National Scheme of Conditions of Service: the provisions of the Local Government Superannuation Acts, 1937-1953, and will be determinable by one month's notice, in writing, on either side. The successful candidate will be required to pass a medical examination.

Relationship to any Member or Officer of the Council must be disclosed and canvassing directly or indirectly will disqualify.

Applications stating age, qualifications and experience, together with the names and addresses of two referees, should be sent in an envelope endorsed "Architectural Assistant," so as to reach the Engineer and Surveyor at these Offices not later than FRIDAY, 3rd JUNE, 1960.

A. LANCASHIRE,
Clerk of the Council.

Council Offices,
Shenley-road,
Boreham Wood,
Herts.
10th May, 1960.

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BRITISH RAILWAYS LONDON MIDLAND REGION

QUANTITY SURVEYORS

REQUIRED

Applications are invited for a number of vacancies in the office of the Regional Architect which is shortly moving to new accommodation near Euston Station, London.

In connection with the Modernisation Programme the Quantity Surveying Department is to be strengthened and its activities will embrace the reconstruction of stations and ancillary buildings, new offices and similar projects of an architectural character.

Five-day week; residential and other travel concessions; Superannuation Scheme.

QUANTITY SURVEYORS required for Taking-off and Settlement of Final Accounts. Applicants required to be Final Standard R.I.C.S. Salary Range £990-£1,034.

ASSISTANT QUANTITY SURVEYORS required to carry out duties as above but under supervision. Applicants required to be Intermediate Standard R.I.C.S. Salary Range £875-£948.

Vacancies also exist for Workers-up within the range £254 at age 17 (trainees) to £800. Starting salary according to age and experience. Interviews now for commencement at end of school year. Candidates should possess G.C.E. at 'O' level with five subjects including English and Mathematics.

Apply in writing quoting reference 107 (B.) stating qualifications, age, experience and salary required to :—

W. R. Headley, A.R.I.B.A., A.A.Dipl.,
Regional Architect,

Chief Civil Engineer's Office,
British Railways, London Midland Region,
5a Euston Grove, London, N.W.1.

WEMBLEY
BOROUGH.

APPOINTMENT OF ASSISTANT ARCHITECT
(Special Classes, £785-£1,070, plus London "Weighting" Allowance)

Applications are invited from suitably qualified persons.

Forms of application, returnable by 6th JUNE, 1960, are obtainable from the Borough Engineer and Surveyor, Town Hall, Wembley.

Housing accommodation cannot be provided.

N. CUMPSTY,
Town Clerk.

Town Clerk's Office,
Town Hall,
Wembley.
19th May, 1960.

SALOP
COUNTY.

ARCHITECT'S DEPARTMENT.

There is a vacancy for an ASSISTANT HEATING ENGINEER on A.P.T. Grade II (£765-£880 p.a.). Duties include the maintenance of central heating and hot water supply installations and other engineering plant. The man appointed will require a motor car to carry out his duties for which essential user expenses will be paid. N.J.C. Conditions. Five-day week.

A disturbance allowance or weekly separation allowance may be paid to a married man taking up the appointment.

Conditions of service and application form obtainable from Ralph Crowe, A.A.Dipl., A.R.I.B.A., A.M.T.P.I., County Architect, Column House, London-road, Shrewsbury. Closing date 10th JUNE, 1960.

NUNEATON
BOROUGH.

ARCHITECTURAL ASSISTANT.

Applications are invited from suitably qualified persons for this position. Salary Special Grade £785-£1,070.

The post is suitable for a recently qualified person and will provide scope and opportunity for a varied experience as the Borough Council have much architectural work in hand.

Further details and forms of application, which must be returned not later than the 4th JUNE, 1960, may be obtained from me.

A. A. CRABTREE,
Town Clerk.

Council House,
Nuneaton.
May, 1960.

HACKNEY
METROPOLITAN BOROUGH.

ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the following permanent appointments in the Building (Maintenance) Section of the Department.

(a) ASSISTANT BUILDING SURVEYORS (Two Appointments), Grade A.P.T. II-III (£765-£1,065).

Candidates must have a sound knowledge of building construction and preference will be given to applicants holding appropriate technical qualifications who have also had considerable experience in the preparation of specifications, estimating and incentive bonus schemes in connection with the maintenance of housing properties and public buildings.

(b) JUNIOR BUILDING SURVEYOR Grade A.P.T. I (£610-£765).

For this appointment, candidates are required to have had experience in taking-off, site measuring and preparation of specifications in connection with the maintenance of housing properties and public buildings. Preference will be given to candidates suitably qualified.

In all cases appropriate London Weighting allowance is payable in addition and commencing salaries will be according to training, qualifications and experience. Staff canteen; alternate Saturdays. Post-entry educational training facilities.

Application forms obtainable from Town Clerk, Town Hall, Hackney, E.8, returnable by 9 a.m., 7th JUNE, 1960.

HAYES & HARLINGTON
U.D.C.

BONUS SURVEYOR Required by Engineer and Surveyor's Dept. for Direct Labour Building Maintenance Service. Salary within Grade A.P.T. II, i.e. £765-£880 p.a. plus London "Weighting." 26 years and over £40 p.a. Candidates must have had previous experience in a similar capacity and be competent to measure and set up targets for all types of building work in all trades, negotiate with operatives' representatives, be capable of working with the minimum of supervision and perform technical duties required in the inception and execution of the Council's incentive bonus scheme. Housing accommodation if required. Essential user car allowance payable.

Further particulars, conditions of service and form of application obtainable from the undersigned, which when completed must be returned by 6th JUNE, 1960.

GEORGE HOOPER,
Clerk and Solicitor.

Town Hall,
Hayes,
Middlesex.

WORCESTERSHIRE
COUNTY COUNCIL.

Applications are invited for :—(1) ARCHITECTURAL ASSISTANT, Grade A.P.T. III (£880-£1,065) or Special Grade (£785-£1,070) according to qualifications and experience. The County Council may be able to assist with housing accommodation. (2) TEMPORARY CLERK OF WORKS.

Application forms and further particulars should be obtained from L. C. Lomas, F.R.I.B.A., County Architect, 14 Castle-street, Worcester, not later than 2nd JUNE, 1960. (Z.140)

LEEDS
REGIONAL HOSPITAL BOARD.

Applications are invited for the following appointments :—

(a) ASSISTANT ARCHITECTS. Salary scale £905-£1,310 per annum. Candidates should be Associate Members of the R.I.B.A.

(b) ARCHITECTURAL ASSISTANTS. Salary scale £625-£900 per annum. Candidates should have passed the Intermediate Examination of the R.I.B.A. and have had previous drawing office experience.

(c) ASSISTANT QUANTITY SURVEYORS. Salary scale £905-£1,310 per annum. Candidates should be Associate Members of the R.I.C.S.

(d) QUANTITY SURVEYOR'S ASSISTANT. Salary scale £625-£900 per annum. Candidates should have had some previous office experience.

It should be noted that the salaries quoted above are effective from July 1, 1960.

The establishment of the Board's architectural staff is being reviewed to meet the substantial expansion in the hospital building programme and further vacancies in all grades will be advertised in due course. The above architectural posts will provide young architects with opportunities to gain experience in the design and erection of good quality buildings.

The Board's offices are in Harrogate in pleasant surroundings and an excellent canteen is available on the premises.

Applications stating age, qualifications and experience together with the names and addresses of two referees to the Secretary, Park Parade, Harrogate by June 8, 1960.

NOTTINGHAM CITY.

CITY ENGINEER'S DEPARTMENT—ASSISTANT ELECTRICAL ENGINEER.
Salary: £765-£1,065.

Applications are invited for the above position in the City Engineer's Department, Nottingham, in Grade A.P.T. II (£765-£880 p.a.) or A.P.T. III (£880-£1,065 p.a.). Grade and starting salary will depend on qualifications and experience.

Applicants must have the ability to design electric lighting and power installations for new buildings. The work in the office is on a five-day week basis.

Applications on forms to be obtained from R. M. Finch O.B.E., M.I.C.E., City Engineer and Surveyor, Guildhall, Nottingham, must be returned to him not later than FRIDAY, 3rd JUNE, 1960.

SURREY
COUNTY COUNCIL.

Applications invited for following appointments :—

ASSISTANT ARCHITECTS, QUANTITY SURVEYORS, HEATING ENGINEERS and ELECTRICAL ENGINEERS in the salary range £785-£1,220 p.a. plus £45 p.a. London Allowance. Commencing salary will be in accordance with qualifications and experience.

Grade II (£765-£880 p.a. plus up to £40 p.a. London Allowance, according to age).

ARCHITECTURAL ASSISTANTS. Must be of good general training, preference given those who have passed Inter. R.I.B.A.

QUANTITY SURVEYING ASSISTANTS. Preference given those who have passed Inter. R.I.C.S.

ELECTRICAL ENGINEERING ASSISTANT. Must hold H.N.C. or have passed Sect. A of I.E.E. and be experienced in layout and design of electrical installation in buildings.

STRUCTURAL ENGINEERING ASSISTANT. Must have knowledge of detail and some design in steel or concrete.

Candidates will be appointed at the appropriate point within the scale according to age and ability.

Full details, present salary and three copy testimonials to County Architect, County Hall, Kingston, as soon as possible.

BRENTFORD & CHISWICK
BOROUGH.

APPOINTMENT OF ASSISTANT ARCHITECT.

Applications are invited for this post on Special Grade (£830-£1,115 p.a.).

Preference will be given to candidates who have passed the examination for A.R.I.B.A. Commencing salary will be according to qualifications and experience.

The Council may be prepared to assist in the provision of housing accommodation.

Applications to Borough Engineer and Surveyor, not later than 11th JUNE, 1960.

W. F. J. CHURCH,
Town Clerk.

Town Hall,
Chiswick, W.4.

SOUTHAMPTON
COUNTY BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the following appointments :

(a) ASSISTANT ARCHITECT, Grade A.P.T. IV, £1,065-£1,220. Applicants must hold the qualification A.R.I.B.A. and have had wide experience in housing design and construction, including multi-storey flats and shopping centres, in connection with redevelopment schemes in urban areas.

(b) ASSISTANT ARCHITECT within the grading for Special Classes of Officers (£785-£1,070) according to experience and qualifications (a commencing salary of £950 is envisaged). Applicants must have passed Parts I and II of the R.I.B.A. final examination and have had experience in housing design and construction and estate layout.

(c) ARCHITECTURAL ASSISTANT, Grade A.P.T. II, £765-£880. Applicants are required to have passed the intermediate R.I.B.A. examination or its equivalent at one of the recognised schools of architecture, and preferably have had experience in local government housing.

(d) ASSISTANT QUANTITY SURVEYOR, Grade A.P.T. IV, £1,065-£1,220. Applicants must be fully qualified chartered quantity surveyors, preferably with wide experience in municipal housing, including multi-storey flats and shopping centres.

The appointments are subject to N.J.C. conditions of service.

Housing accommodation available in approved cases and approved removal expenses reimbursable up to a maximum of £50.

Apply on application forms obtainable from the Borough Engineer and Surveyor, Civic Centre, Southampton, returnable by TUESDAY, 7th JUNE, 1960.

ST. HELENS
EDUCATION COMMITTEE.

APPOINTMENT OF TECHNICAL ASSISTANT (ARCHITECTURAL).

Applications are invited for the post of TECHNICAL ASSISTANT (ARCHITECTURAL) in the office of the Education Building Surveyor. This is a newly created post and will offer opportunities for interesting work on school minor projects. Applicants should have had drawing office experience in an architectural office and be suitably qualified.

Salary within the Special Grade of the A.P.T. Division (i.e. £785-£1,070). The commencing salary will be fixed at a point within the scale commensurate with qualifications and experience.

Further particulars and application forms may be obtained from the undersigned and should be returned not later than 18th JUNE, 1960. Canvassing will disqualify.

N. F. NEWBURY,
Director of Education.

Education Office,
St. Helens.

BERKSHIRE
ROYAL COUNTY.

ASSISTANT ARCHITECT, A.P.T. Grade V, £1,220-£1,375. Candidates must be Associates of the R.I.B.A. and possess energy, ability and initiative. The office is engaged on all types of County buildings and owing to the rapid increase in population a very full programme lies ahead. The post will rank as second in a group of eight and opportunities for running contracts will be given.

There is a number of staff houses and flats, some of which become available from time to time, and assistance up to 75 per cent. is given with removal expenses.

Application forms and particulars of the Department can be obtained from J. T. Castle, A.R.I.B.A., A.M.T.P.I., County Architect, Wilton House, Parkside-road, Reading, to whom they should be returned not later than TUESDAY, 7th JUNE, 1960.

SOUTHEND-ON-SEA
COUNTY BOROUGH.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the following posts :—

ASSISTANT ARCHITECT, Special Classes Scale (£785 x £40(6) x £45—£1,070).

TECHNICAL ASSISTANT (ARCHITECTURAL), Grade A.P.T. II (£765 x £25(1) x £30(3)—£880).

ASSISTANT QUANTITY SURVEYOR Special Classes Scale (£785 x £40(6) x £45—£1,070).

A flat is available for a suitable candidate.

Candidates must be suitably qualified and experienced.

The appointments will be subject to the provisions of the Local Government Superannuation Acts and the National Joint Council's Scheme of Conditions of Service so far as adopted by the Council. Medical examination.

Applications, stating age, qualifications and experience, with the names of two referees, should be submitted to the Borough Architect, 30 Alexandra-street, Southend-on-Sea, forthwith.

Canvassing will disqualify. Any candidate who is related to member or officer of the Council is required to disclose the fact.

ARCHIBALD GLEN,
Town Clerk.

HOSPITAL DESIGN

APPOINTMENT OF ARCHITECTS

NORTH WEST METROPOLITAN REGIONAL HOSPITAL BOARD

(Regional Architect: F. A. C. Maunder, R.S., Dip. Arch., F.R.I.B.A., A.M.T.P.I.)

For many years the hospital building programme has been impeded by lack of finance. The position has now changed, and the capital programme in this region which extends for about 50 miles north and west of London, has been greatly expanded. The programme already includes complete new hospitals, and there are likely to be more in the years to come. This country is able to benefit from the experience of other countries, whose hospital building programmes have so far been ahead, and the opportunity which now arises to lead the world in this field of design could scarcely be surpassed.

The Board's architectural staff is being increased to meet the need for expansion, and the Board are seeking both senior and newly-qualified architects. Planning a new major hospital, which is virtually a self-contained community, or integrating the new with the old calls for imagination and a wide range of architectural skills, and those with ability who become experienced in this work are assured of a successful career whether they remain in official or transfer to private practice at home or abroad. The hospital architect is required to integrate landscape, furnishing and works of art, in the comprehensive design of future hospitals, and consultant specialists will be appointed as required.

Architects in the more senior grades will be required to travel at home or abroad to study hospitals and other noteworthy architecture at the expense of the Board and without prejudice to annual leave. Other grades will be encouraged and assisted to study and travel appropriately. The work of all officers will be duly acknowledged professionally.

The Board's Architect's Department, since it was established in 1948, has acquired a specialised knowledge which it can pass on to new entrants of talent and initiative. The Department is being reorganised to provide for **an administrative directorate of three,** under the Regional Architect. The Deputy Regional Architect will, in particular, promote and co-ordinate constructional design, and two senior Principal Assistant Architects will be responsible for the operational and technical management of the Department and external consultants.

Executive design will be delegated to two main architectural groups headed by Assistant Regional Architects, each assisted by two Principal Assistant executive architects. Each group will consist of about twenty architects and every member will have an opportunity for individual as well as group activity. There will be a designated architect or architects for each project, who will be joined in a professional consortium with a doctor, engineer and hospital administrator.

All posts are permanent and pensionable. The Board has modern offices and a five-day week is normally worked. Conditions of service are determined by a Whitley Council for professional and technical staff. It is hoped that successful candidates will take up their duties at an early date so that they may take part in organised courses of study and travel before the autumn.

APPLICATIONS ARE INVITED FOR THE FOLLOWING APPOINTMENTS. All applicants must be registered architects.

DEPUTY REGIONAL ARCHITECT: Salary £1,965 x 100 (4)—£2,365, plus £50 London Weighting. First or good second class graduate (or professional equivalent); must possess mature architectural experience, with special aptitude for applied design; have high administrative and organising ability, and preferably research experience. (Ref. 818)

ASSISTANT REGIONAL ARCHITECTS (2) Salary £1,825 x 75 (2) x 100 (2)—£2,175 plus £50 London Weighting. High graduate or professional status in design; must provide creative leadership in the executive architectural groups, and will be responsible for projects of considerable magnitude. Particular skill in analytical and formative planning is essential. Previous hospital building experience is not essential. (Ref. 819)

PRINCIPAL ASSISTANT ARCHITECTS (2) Salary £1,665 x 50 (1) x 75 (2) x 85 (2)—£2,035 plus £50 London Weighting. Good graduate or professional status. Must possess good all round ability and experience adequate to manage a project of up to £2 million in value from inception to completion, with collaborative assistance in design, or a group of projects of equivalent value. Will work closely with an Assistant Regional Architect and be responsible for the work of an architectural group of about ten architects. (Ref. 820)

SENIOR ASSISTANT ARCHITECTS: Salary £1,300 x 60 (5)—£1,600 plus £50 London Weighting. Good graduate or professional status, and at least three years' experience in architectural practice. Responsibility for executive work of an increasingly advanced order is offered to candidates with ability, initiative and ambition. (Ref. 821)

ASSISTANT ARCHITECTS: Salary £905 x 35 (1) x 45 (6) x 50 (2)—£1,310 plus £40—£50 London Weighting. These posts offer excellent opportunity for young architects, including those just qualified, to enter this opening field of practice. There is ample opportunity to gain experience in a wide and absorbing range of work. Candidates of ability and especially those holding an honours degree should have no difficulty in obtaining early preferment in their career. (Ref. 822)

APPLY, stating age, qualifications (with dates) and experience, with names of two referees, to the **Secretary, North West Metropolitan Regional Hospital Board, 40 Eastbourne Terrace, London, W.2, by 13th June,** quoting appropriate reference number. Candidates applying for more than one grade are asked to submit a separate application for each grade. Mr. Maunder will be pleased to answer telephone enquiries. **AMB. 8011, Ext. 313.**

BLACKPOOL
COUNTY BOROUGH.

Applications are invited for:
ASSISTANT ARCHITECTS. Special Scale, £785-£1,070 p.a.
ASSISTANT QUANTITY SURVEYORS, Special Scale, £785-£1,070 p.a.
Forms, etc., from Arthur Hamilton, B.Sc., A.R.I.B.A. (Borough Surveyor), P.O. Box 17, Municipal Buildings, Blackpool.

LEEDS CITY.

CITY ARCHITECT'S DEPARTMENT.
Applications are invited for the following appointments:
1. SENIOR ASSISTANT ARCHITECT, A.P.T. V, £1,220-£1,375.
2. SENIOR ASSISTANT ARCHITECTS, A.P.T. IV, £1,065-£1,220.
3. ASSISTANT ARCHITECTS, A.P.T. III, £880-£1,065.
4. ASSISTANT ARCHITECTS, A.P.T. II, £765-£880.
5. ARCHITECTURAL ASSISTANTS, A.P.T. I, £610-£765.
6. ASSISTANT QUANTITY SURVEYOR, A.P.T. III, £880-£1,065.
7. JUNIOR ASSISTANT QUANTITY SURVEYOR, C.D., maximum, £595.

Applicants for posts 1 and 2 should be fully qualified and members of the R.I.B.A.

Applicants for posts 3 and 4 should preferably have passed the intermediate R.I.B.A. examination.

In addition to large annual programmes for both housing, including multi-storey dwellings and schools, a number of interesting projects are likely to be carried out in the near future, e.g. public baths, abattoir and meat markets, fruit and vegetable markets, Civic Hall extensions, branch colleges and hostels.

Architects are required to design and work on these projects. Applicants will be considered on their capability for design, experience, contemporary outlook and suitability.

The appointments are superannuable. Medical examination.

The closing date for receipt of applications is the 18th JUNE, and these are to be sent to the City Architect, Priestley House, Quarry Hill, Leeds, 9.

Canvassing disqualifies.

J. R. SHERIDAN-SHEDDEN,
City Architect.

Priestley House,
Quarry Hill,
Leeds, 9.
19th May, 1960.

GREENWICH
METROPOLITAN BOROUGH.

APPOINTMENT OF JUNIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the position of JUNIOR ARCHITECTURAL ASSISTANT in the Borough Engineer and Surveyor's Department. Salary A.P.T. I (£610 to £765 per annum, plus London Weighting). Commencing salary in accordance with experience.

Preference will be given to applicants with experience of architectural drawing who have made suitable progress towards completion of the examination of the R.I.B.A. or R.I.C.S. Facilities available for study on one day per week.

Form of application obtainable from the undersigned and returnable by noon on TUESDAY, 7th JUNE, 1960.

G. C. TURK,
Town Clerk.

Town Hall,
Greenwich,
S.E.10.
16th May, 1960.

HEREFORDSHIRE
COUNTY COUNCIL.

Applications are invited for the following posts:

(a) THREE SENIOR ASSISTANT ARCHITECTS, A.P.T. Grade IV (£1,065 to £1,220 per annum). Must be A.R.I.B.A.

(b) ONE ARCHITECTURAL ASSISTANT, A.P.T. Grades I (£610 to £765), II (£765 to £880), III (£880 to £1,065), or Special Scale (£785 to £1,070) according to ability, experience and qualifications. Prospects of immediate promotion to Grade IV on election A.R.I.B.A. in approved cases.

(c) ONE ARCHITECTURAL ASSISTANT, A.P.T. Grade I (£610 to £765). Prospect of immediate promotion to Special Scale on passing Parts I and II of R.I.B.A. Final examination.

(d) ONE ASSISTANT ELECTRICAL ENGINEER, A.P.T. Grades II (£765 to £880), III (£880 to £1,065), or Special Scale (£785 to £1,070), according to ability, experience and qualifications. Car allowance. Drawing Board experience essential. Varied programme of large and small installations in schools and public buildings.

Superannuated posts, subject to medical examination and one month's notice, either side. Separation allowance to married men for limited period in certain cases (25s. per week and fare home every two months).

Interesting and varied programme. Five-day week.

Hereford is situated in the beautiful Wye Valley.

Application forms from County Architect, Bath-street, Hereford, to be submitted by 15th JUNE, 1960.

Please state clearly whether for for (a), (b), (c) or (d) is required.

NOTTINGHAMSHIRE
COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.
APPOINTMENT OF QUANTITY SURVEYORS.

Applications are invited from suitably qualified persons for the following posts:
SENIOR QUANTITY SURVEYOR, A.P.T. Grade V £1,220-£1,375 p.a.
ASSISTANT QUANTITY SURVEYOR, A.P.T. Special Scale, £785-£1,070.
QUANTITY SURVEYOR'S ASSISTANT, A.P.T. Grade I, £610-£765.

Applicants for the first two posts must be Chartered Quantity Surveyors (A.R.I.C.S.) with experience in taking off quantities, site measurements, interim certificates and final accounts. For the third post applicants should have passed the Intermediate Examination of the R.I.C.S.

Forms of application from W. D. Lacey, County Architect, County Hall, West Bridgford, Nottingham, to whom they should be returned as soon as possible.

A. R. DAVIS,
Clerk of the County Council.

WELWYN GARDEN CITY
DEVELOPMENT CORPORATION

invite applications for a temporary CLERK OF WORKS to supervise the erection of a three-storey block of shops and flats in Welwyn Garden City Town Centre, costing approximately £150,000 and under the direction of Messrs. Louis de Soissons, Peacock, Hodges and Robertson, who are the architects for the scheme.

Salary will be between £18 and £20 per week according to experience. The appointment is expected to be of about eighteen months' duration. Housing accommodation may be made available in suitable cases. Applicants must have had previous experience as Clerk of Works for similar buildings, general supervision of all trades and be competent in setting out and levelling.

Applications, stating age, qualifications, previous experience (including dates and salaries earned) together with the names and addresses of three referees, should be addressed to The General Manager, Welwyn Garden City Development Corporation, Church-road, Welwyn Garden City, Herts.

ENFIELD
BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the post of ARCHITECTURAL ASSISTANT, Grade A.P.T. I (£610-£765 per annum, plus a London Weighting Allowance of £10-£30 per annum according to age).

Applicants must have had experience in the preparation of plans, specifications, etc., including the maintenance of public buildings.

Saturday mornings are normally free of duty.

Application forms obtainable from H. D. Peake, M.Sc.(Eng.), M.I.C.E., Borough Engineer and Surveyor, 7 Little Park Gardens, Enfield, Middlesex, returnable to the undersigned.

CYRIL E. C. R. PLATTEN,
Town Clerk.

Public Offices,
Enfield,
Middlesex

BIRMINGHAM
REGIONAL HOSPITAL BOARD.

SURVEYING ASSISTANT (BUILDING). £625-£900. To assist in survey of existing hospital buildings and preparation of record plans. Inter.R.I.C.S. (Buildings Division) essential. Must be neat draughtsman with experience in measurement and plotting of surveys to all scales. Superannuable. Five-day week. Written applications (quoting Arch 4) naming two referees to Secretary, RHB, 10 Augustus-road, Birmingham, 15, by 7th JUNE, 1960.

ISLE OF ELY
COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:

(a) SENIOR ASSISTANT ARCHITECTS, A.P.T. V, £1,220-£1,325.

Applicants must be A.R.I.B.A. with experience. Terms of appointment include Essential User Car allowance on the County scale for a car not exceeding 1,199 c.c.

(b) ASSISTANT ARCHITECTS, Special Grade, £785-£1,070.

Applicants should be A.R.I.B.A. or have completed Parts I and II of the R.I.B.A. Final examination, or have satisfactorily completed a course at a School of Architecture.

(c) ARCHITECTURAL ASSISTANTS: A.P.T. I, £610-£765; or A.P.T. II, £765-£880; or A.P.T. III, £880-£1,065.

The County Council has an extensive programme of work for Education, Social Welfare and other buildings. The scope offered will depend solely on the efforts and ability of the persons appointed.

Application forms and further particulars from the County Architect, County Hall, March, Cambs., to whom they should be returned not later than MONDAY, 13th JUNE, 1960.

R. F. G. THURLOW,
Clerk of the County Council.

CHESTERFIELD
RURAL DISTRICT COUNCIL.

PLANNING ASSISTANT, A.P.T. IV.

Applications are invited for the appointment of PLANNING ASSISTANT, A.P.T. IV (£1,065-£1,220). Commencing salary according to qualifications and experience. Essential user car allowance for Class I car.

Housing accommodation will be provided in appropriate cases. Household removal expenses will be paid.

Applicants should have passed the Final Examination of the Town Planning Institute and an Architectural Qualification would be an advantage.

The Council has a population of 95,620 and is now to exercise additional functions under the Town and Country Planning (Delegation) Regulations, 1959. Part of the district is in the Peak National Park.

Any further information may be obtained from Mr. J. B. Wikeley, M.Eng., M.I.C.E., Barrister at Law, Engineer and Surveyor.

Application, with the names of two referees to reach the undersigned by 4th JUNE, 1960.

H. O. HAWKINS,
Clerk of the Council.

Rural Council House,
Saltergate,
Chesterfield.

WEST HAM
COUNTY BOROUGH.

BOROUGH ARCHITECT AND PLANNING OFFICER'S DEPARTMENT.

There are vacancies for ASSISTANTS in the Architectural Section on salary ranges rising to £1,265; £1,115; and £805 p.a.; commencing salary according to qualifications and experience. If you wish to be considered for one of these posts, write to the Borough Architect, 70 West Ham-lane, Stratford, E.15, and/or telephone MARyland 3301 (Ex. 93) for an appointment.

CANTERBURY CITY

ASSISTANT ARCHITECT. A vacancy exists in the City Architect's Department. Commencing salary within the grade £765-£1,070, according to qualifications and experience.

Applicants should have had varied experience and be capable of good detailing and presentation.

Housing accommodation will be made available, if required.

Applications, with the names of two referees, must reach the City Architect and Planning Officer, John L. Berbiers, F.R.I.B.A., A.M.T.P.I., not later than 3rd JUNE, 1960.

Canvassing will disqualify.

J. BOYLE,
Town Clerk.

Municipal Buildings,
Canterbury.

CWMBRAN
DEVELOPMENT CORPORATION.

CLERK OF WORKS.

Applications are invited for the above superannuable post in the Chief Architect's Department to supervise the erection of permanent houses and other buildings, including setting out, levelling, measuring and keeping records.

Commencing Salary will be according to qualifications and experience on the Salary Scale £765 to £880.

Housing accommodation will be made available in suitable cases or otherwise lodging expenses in accordance with the Corporation's scale will be allowed for a limited period to married men.

Applications which should state age, experience, present and former employment (with applicable salaries) together with the names and addresses of two referees should reach the undersigned not later than 13th JUNE, 1960.

J. C. P. WEST, A.R.I.B.A., M.T.P.I.,
Chief Architect.

Victoria-street,
Cwmbran,
Mon.

HORNCHURCH
URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.
APPOINTMENT OF ARCHITECTURAL ASSISTANT, GRADE A.P.T. II (£765-£880).

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT at a salary in accordance with Grade A.P.T. II (£765-£880). In addition, an amount equivalent to that of London Weighting will be paid.

Candidates should have passed the R.I.B.A. Intermediate Examination and be studying for the Final.

Applicants should state whether or not they require housing accommodation.

The appointment will be subject to the Local Government Superannuation Acts, the National Scheme of Conditions of Service and the passing of a medical examination.

Application forms may be obtained from and must be returned to the undersigned not later than 3rd JUNE, 1960.

P. L. COX,
Clerk of the Council.

Council Offices,
Billet-lane,
Hornchurch,
Essex.
16th May, 1960.

NORFOLK
EDUCATION COMMITTEE.

Applications are invited for an ARCHITECTURAL ASSISTANT, salary grade A.P.T. I (£610-£765). The applicants should have had a sound architectural training and be good draughtsmen. Commencing salary in accordance with experience. Forms of application from the undersigned to be returned by 11th JUNE, 1960.

F. LINCOLN RALPHS,
Chief Education Officer.

County Education Office,
Stracey-road,
Norwich.
Nor 49A.

NORTHERN IRELAND
GOVERNMENT.

ASSISTANT QUANTITY SURVEYOR.

Applications invited from Corporate Members of the Royal Institution of Chartered Surveyors (Quantities) for unestablished post in Chief Quantity Surveyor's Branch, Ministry of Finance. Experience in "Taking-off" for large building works essential. Salary scale £805-£1,260, entry point according to age and experience. Prospects of permanent and pensionable appointment. Preference for ex-Servicemen. Application forms, obtainable from Director of Establishments Room 271, Stormont, Belfast, to be completed and returned by the 22nd JUNE, 1960.

MACCLESFIELD.
BOROUGH.

APPOINTMENT OF DEPUTY BOROUGH ARCHITECT.

Applications are invited for the appointment of DEPUTY BOROUGH ARCHITECT on Grade A.P.T. IV, £1,065 to £1,220 (under review).

Applicants must be members of the R.I.B.A. and should have had experience of the Architectural work of a Local Authority.

Application forms and particulars may be obtained from the Borough Architect, 3 Jordangate, Macclesfield, to whom they must be returned not later than 16th JUNE, 1960.

WALTER ISAAC,
Town Clerk.

Town Hall,
Macclesfield.

EAST HAM
COUNTY BOROUGH.

BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited for the following temporary appointment:—
SENIOR ASSISTANT ARCHITECT, Grade IV, £1,065-£1,220.

London Weighting is paid in addition, and a salary in excess of the minimum may be paid according to qualifications and experience. The appointment is for work on a new Technical College and is expected to be for a period of not less than three years.

Further details and application forms returnable by 10th JUNE, 1960, from the Town Clerk, Town Hall, East Ham, E.6.

HACKNEY
METROPOLITAN BOROUGH.

ASSISTANT ARCHITECT OR ARCHITECTURAL ASSISTANT, ENGINEER AND SURVEYOR'S DEPARTMENT.

Candidates must have passed the Final or Intermediate Examination of the R.I.B.A. and Appointment will be made as ASSISTANT ARCHITECT in A.P.T. IV (£1,065-£1,220) or as ARCHITECTURAL ASSISTANT in A.P.T. II (£765-£880), A.P.T. III (£880-£1,065) or Special Grade (£785-£1,070) per annum according to qualifications and experience.

In all cases appropriate London Weighting allowance is payable in addition, and commencing salaries will be according to training, qualifications and experience. Staff canteen, alternate Saturdays, post-entry educational training facilities.

Application forms obtainable from the Town Clerk, Town Hall, Hackney, E.8, returnable by 9 a.m. 7th JUNE, 1960.

ISLINGTON
METROPOLITAN BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited from persons not more than 50 years of age for the following appointments on the permanent staff:—

(a) 2 SENIOR ARCHITECTURAL ASSISTANTS. Grade A.P.T. V (£1,220-£1,375 p.a.).

(b) 2 ARCHITECTURAL ASSISTANTS. Grade A.P.T. III (£880-£1,065 p.a.).

All plus appropriate London Weighting.

Applicants for:—

(a) should be Associate Members of the R.I.B.A. with considerable experience including the design and construction of multi-storey housing;

(b) should have passed the Intermediate examination of the R.I.B.A. and be suitably experienced.

Application forms, returnable by FIRST POST on MONDAY, the 13th JUNE, 1960, obtainable from Mr. C. N. Cowney, Borough Engineer and Surveyor, Town Hall, Upper-street, N.1.

H. DIXON CLARK,
Town Clerk.

WEDNESFIELD
URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.
APPOINTMENT OF
CHIEF ASSISTANT ENGINEER.

Applications are invited for the appointment of CHIEF ASSISTANT ENGINEER at a salary in accordance with A.P.T. Grade IV (£1,065 to £1,220 per annum).

Applicants must have had considerable experience in municipal engineering and have passed the Final Testamur Examination of Municipal Engineers or hold equivalent qualification.

Housing accommodation will be provided, if necessary, and reasonable removal expenses will be paid.

The National Joint Council Conditions of Service will apply and the successful applicant must submit to a medical examination.

The district is developing rapidly and offers exceptional experience.

Applications stating age, qualifications, experience, with the names of two referees must be received by the undersigned by not later than 3rd JUNE, 1960.

J. HENWOOD JONES,
Clerk of the Council.

Council Offices,
Alfred Squire-road,
Wednesfield,
Staffs.

NORFOLK
EDUCATION COMMITTEE.

Applications are invited for the post of ASSISTANT ARCHITECT. Salary in accordance with A.P.T. Grade IV (£1,065 x £55 x £50 (2) — £1,220).

Candidates should be qualified Architects and have experience in the planning and erection of large buildings.

Forms of application from the undersigned to be returned within 14 DAYS of the date of this advertisement.

F. LINCOLN RALPHS,
Chief Education Officer.

County Education Office,
Stracey-road,
Norwich.
NOR. 49A.

BERMONDSEY
METROPOLITAN BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.
ASSISTANT ARCHITECT.

Applications are invited from Chartered Architects for the permanent appointment of ASSISTANT ARCHITECT, Grade A.P.T. III-IV salary range from £880-£1,220 p.a.) plus London Weighting, commencing salary according to experience and qualifications. Applications on forms from the undersigned to be returned by not later than 17th JUNE, 1960.

J. S. LAMBERT,
Town Clerk.

Municipal Offices,
Spa-road,
London, S.E.16.

SHOREDITCH.
METROPOLITAN BOROUGH.

Applications are invited for the appointment of GENERAL FOREMAN in the Building Works Dept. Salary A.P.T. II, £805-£920 p.a. Permanent appointment. Subject to medical examination. Council's Superannuation Scheme, N.J.C. Conditions and to six months' probationary service.

Candidates must have had considerable experience in the building industry and be capable of organising and supervising work carried out by all trades.

Applications stating age, training and experience and giving the names of two referees to reach Borough Engineer, Town Hall Old Street, E.C.1, by 3rd JUNE, 1960.

KINGSTON UPON HULL
CITY AND COUNTY.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following posts:—

(a) ASSISTANT ARCHITECTS, Grade S.C.O. (£785-£1,070).

(b) ARCHITECTURAL ASSISTANTS, Grade A.P.T. I (£610-£765).

(c) QUANTITY SURVEYORS, Grade S.C.O. (£785-£1,070).

(d) QUANTITY SURVEYING ASSISTANTS, Grade A.P.T. I (£610-£765).

There is an interesting and varied programme of work in the department. Housing accommodation may be provided for the successful married applicants if they are not already resident in the city. The point of entry to the scale will be determined by experience, and a suitable applicant for posts in (a) or (c) may be offered a commencing salary of £990 per annum.

Application forms may be obtained from Andrew Rankine, O.B.E., A.R.I.B.A., City Architect, Guildhall, Kingston upon Hull, and should be returned completed on or before 13th JUNE, 1960.

CAMBERWELL
METROPOLITAN BOROUGH.

CLERKS OF WORKS.

CLERKS OF WORKS Required in Housing Department to supervise conversion of properties. Salary £770 per annum. No age limit. Work expected to last until March, 1961. It is essential that applicants have a car. A car allowance will be paid. Write giving full particulars of experience, etc., to Town Clerk, Town Hall, Camberwell, S.E.5.

DAGENHAM
BOROUGH.

BONUS CLERK.

Applications are invited for this newly created post from persons with previous experience of controlling incentive bonus schemes for painting and other works in the building industry.

Salary £650-£805 per annum (Grade A.P.T. I) at age 26 years and over.

Application forms and further details obtainable from the Borough Engineer and Surveyor. Closing date 11th JUNE, 1960.

KEITH LAUDER,
Town Clerk.

Civic Centre,
Dagenham.

WEST RIDING OF YORKSHIRE
COUNTY COUNCIL.

OFFICE OF THE COUNTY ARCHITECT.

Applications are invited for the post of ARCHITECTURAL ASSISTANT, A.P.T. III, salary range £880-£1,065, in the Divisional Architect's Office at Wakefield.

Applications to be submitted by the FIRST POST on TUESDAY, 14th JUNE, 1960, on forms to be obtained from and returned to the undersigned.

A. W. GLOVER, F.R.I.B.A.,
County Architect.

Bishopgarth,
Westfield-road,
Wakefield.

BRITISH RAILWAYS.

Applications are invited for the post of ASSISTANT ARCHITECT in the office of the Architect, Eastern Region at King's Cross Station. Applicants should be qualified or have passed the Intermediate examination with some years' practical experience. The office is engaged on a wide range of existing buildings and gives responsibility for design, administration and site supervision to those with ability. Salary range £875 to £948 p.a. Modern working conditions five-day week, rail travel concessions. Apply in writing to the Architect, British Railways, King's Cross Station, London, N.1.

CUMBERLAND
COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of an ASSISTANT BUILDINGS INSPECTOR for duty in the Workington area. Salary within A.P.T. Grade I (£610-£765), commencing salary in accordance with experience. Essential User Grade D car allowance. N.J.C. Service Conditions. Post pensionable and subject to medical examination. Housing accommodation available.

Applicants must have had practical experience of all of the following: Building, supervision of building contracts, maintenance of public buildings, preparation of estimates, specifications and schedules of condition.

Further particulars and forms of application may be obtained from A. Lumb, A.R.I.B.A., Deputy County Architect, 15 Portland Square, Carlisle, to whom completed applications should be returned not later than MONDAY, 13th JUNE, 1960.

G. N. C. SWIFT,
Clerk of the County Council.

LONDON
COUNTY COUNCIL.

QUALIFYING EXAMINATION FOR THE OFFICE OF DISTRICT SURVEYOR.

An examination for the certificate of proficiency to perform the duties of District Surveyor will be conducted in London in the week commencing 10th OCTOBER, 1960. The minimum age limit for candidates is 25.

Possession of this certificate is necessary for appointment to positions as District Surveyor (salary scales £1,850 to £3,000 a year) or as Assistant District Surveyor (present salary scale £1,295 to £1,535 a year, plus £61 10s. a year).

Apply to the Architect to the Council (EK/B/1008/5), County Hall, Westminster Bridge, S.E.1, for application forms and further particulars. Completed applications to be submitted before 1st SEPTEMBER, 1960.

BOURNEMOUTH
COUNTY BOROUGH.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of:—

(A) ASSISTANT ARCHITECT. Salary Grade Special Scale, £785-£1,070 p.a.

(B) ARCHITECTURAL ASSISTANT. Salary Grade A.P.T. I, £610-£765 p.a.

Successful candidates will be appointed at present salary if within the incremental scale.

Candidates for Post (A) must be fully qualified (by examination) members of the R.I.B.A., and for Post (B) to have passed the Intermediate Examination of the R.I.B.A.

Application forms and further particulars from Borough Architect, Town Hall, Bournemouth. Completed applications to reach the undersigned by 10 a.m. 11th JUNE, 1960.

A. LINDSAY CLEGG,
Town Clerk.

SOUTHAMPTON
COUNTY BOROUGH.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the permanent post of SENIOR ASSISTANT PLANNING OFFICER, Grade IV (£1,065-£1,220).

Applicants should be Members of T.P.I. and hold a qualification in Landscape Architecture. Successful applicant to be in charge of small landscape group in the planning section, with considerable opportunity for preparing and carrying through schemes of urban landscaping.

Housing accommodation available in approved cases and approved removal expenses reimbursed up to a maximum of £50.

Commencing salary within grade according to experience and qualifications.

Application forms from the Borough Architect, Civic Centre, Southampton, returnable by 13th JUNE, 1960.

LEYTON
BOROUGH
(in the County of Essex).

COMMITTEE FOR EDUCATION.
APPOINTMENT OF
ARCHITECTURAL ASSISTANT.

Applications are invited for the permanent appointment of ARCHITECTURAL ASSISTANT, Grade A.P.T. II, £765-£880 per annum, plus London Weighting. The successful applicant will be employed by the Essex County Council, and will work in the School Architect's Section of the Borough Engineer and Surveyor's Department, Town Hall, Leyton, E.10; five-day week is operated.

Details and forms of application from the Borough Education Officer, Education Offices, Kirkdale-road, Leytonstone, E.11, to whom they should be returned within 10 days from the appearance of this advertisement.

D. J. OSBORNE,
Town Clerk.

Town Hall,
Leyton, E.10.

WALLASEY
COUNTY BOROUGH.

APPOINTMENT OF
CLERK OF WORKS.

Applications from persons experienced in reinforced concrete construction are invited for the above-mentioned appointment. The applications, giving age and full particulars of education, experience, present and previous employment, are to be sent to the Borough Architect, Town Hall, Wallasey, by 31st MAY, 1960. The salary will be up to £900 per annum according to qualifications and experience.

A. G. HARRISON,
Town Clerk.

FAREHAM.
HAMPSHIRE.

A vacancy occurs in the Architects' Section of the Engineer and Surveyor's Department, Fareham Urban District Council, for a SENIOR ARCHITECTURAL ASSISTANT approaching Final R.I.B.A. standard, responsible, with initiative and a modern approach to design.

Fareham is a thriving South Coast town, the office friendly and informal, and the design standard, mainly of housing, is thoroughly progressive.

A.P. & T. Grade II. Superannuation. N.J.C. Conditions. Medical examination.

Please write for full details to Engineer and Surveyor, Westbury Manor, West-street, Fareham, Hants.

Closing date: 13th JUNE, 1960.

CHELTENHAM
BOROUGH.

APPOINTMENT OF AN
ASSISTANT BUILDING INSPECTOR.

Applications are invited for this post in the Borough Surveyor's Department at a salary in A.P.T. II (£765-£880 per annum). Preference will be given to candidates holding the Building Inspector's Certificate of the Institution of Municipal Engineers or the Building Surveyor's Certificate of the Royal Institute of British Architects.

Applications with names of two referees to be sent to the Borough Surveyor, P.O. Box 12, Municipal Offices, Cheltenham, not later than FRIDAY, 24th JUNE, 1960.

F. D. LITTLEWOOD,
Town Clerk.

THE UNITED OXFORD HOSPITALS.

Applications are invited for the post of SURVEYING ASSISTANT, at a salary of £625-£900 per annum, commencing salary depending on age and experience.

Applicants must have passed the Intermediate Examination of the Royal Institution of Chartered Surveyors, Building Sub-Division, and have had experience in the preparation of plans and specifications for alterations to existing buildings.

Applications, stating age, qualifications and experience, together with the names of three referees, to be sent to the undersigned by 7th JUNE, 1960.

W. F. KEEGAN, A.R.I.C.S.,
Surveyor to the United Oxford Hospitals.

Radcliffe Infirmary,
Oxford.

MANCHESTER.
CITY ARCHITECT'S OFFICE.

Applications invited for the following appointments on the Permanent Staff:

(a) ASSISTANT SENIOR BUILDING SURVEYOR. Salary A.P.T. III, £880-£1,065. Applicants must be conversant with the Model Building By-laws; should have passed the Building Surveyors Examination of the R.I.B.A., or hold equivalent qualifications. The duties will be mainly the examination of plans submitted for consideration under the building by-laws. Housing accommodation for a limited period may be provided.

(b) ASSISTANT QUANTITY SURVEYOR. Salary Special Grade, £785-£1,070. Candidates must have experience in the preparation of Bills of Quantities and Specifications, interim valuations and settlement of final account for all classes of building work.

For both appointments removal expenses allowed. Five-day week.

Forms of application from the City Architect, P.O. Box 488, Town Hall, returnable by 7th JUNE, 1960.

HORNCHURCH
URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.
APPOINTMENT OF
ARCHITECTURAL ASSISTANT,
SPECIAL GRADE (£785-£1,070).

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT at a salary in accordance with Special Grade (£785-£1,070). In addition, an amount equivalent to that of London Weighting will be paid.

Candidates for this post should have passed the Final Examination of the R.I.B.A.

Applicants should state whether or not they require housing accommodation.

The appointment will be subject to the Local Government Superannuation Acts, the National Scheme of Conditions of Service and the passing of a medical examination.

Application forms may be obtained from and returned to the undersigned not later than 3rd JUNE, 1960.

P. L. COX,
Clerk of the Council.

Council Offices,
Billet-lane,
Hornchurch,
Essex.
16th May, 1960.

LANCASHIRE
COUNTY COUNCIL.

CLERKS OF WORKS.

Applications are invited for appointment of BUILDING CLERKS OF WORKS within the Salary Scale £850-£950 per annum, according to experience and ability. Successful applicants, who should have a thorough knowledge of all aspects of the building trade, will be engaged on major building projects in various parts of Lancashire.

The posts are temporary, with a possibility of continued employment, and previous Local Government Service will be reckonable for superannuation purposes.

Applications should be made on a form to be obtained from the County Architect, P.O. Box 26, County Hall, Preston, and returned as soon as possible.

NEWMARKET
RURAL DISTRICT COUNCIL.

Experienced CIVIL ENGINEERING INSPECTOR required for 9 to 12 months, commencing July, to work under Resident Engineer on supervision of extensive sewerage contract in Cambridgeshire. Salary £15 per week.

Applications, giving full particulars of experience, age and names and addresses of two persons to whom reference may be made regarding previous service must be sent to the undersigned not later than MONDAY, 6th JUNE, 1960.

H. W. EVANS,
Clerk of the Council.

Council Offices,
Park-lane,
Newmarket,
Suffolk.

CHICHESTER
CITY.

SENIOR ASSISTANT.

Applications are invited from CHARTERED ARCHITECTS or CHARTERED SURVEYORS for this appointment at a salary within the Grade for Special Classes of Officers (£785-£1,070). The person appointed will be responsible to the City Surveyor for the design of new council houses and other work connected with housing and housing estate layout. He must have a complete knowledge of building construction, experience in design, and be fully competent to arrange and supervise building contracts. The Corporation retains the services of a firm of Chartered Quantity Surveyors and employs a Clerk of Works.

The appointment will be in accordance with the National Conditions of Service, and terminable by one month's notice on either side.

Temporary housing accommodation will be provided, if required.

Applications on forms, obtainable from the City Surveyor at Greyfriars, North-street, Chichester, must be returned to me by 10th JUNE, 1960.

ERIC BANKS,
Town Clerk.

NORTHAMPTONSHIRE
COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.
QUANTITY SURVEYOR, SPECIAL SCALE "B"
(rising to £1,485 per annum).

Applications are invited from Associates of the R.I.C.S. who have had experience in cost analysis and particularly interim cost control. The successful applicant will take the responsibility of second in command under the Chief Quantity Surveyor for the quantity surveying and accounting sections.

A car travelling allowance will be payable in accordance with the County Council's approved scale.

A weekly sum of 25s. by way of temporary additional salary will be payable, subject to review quarterly, to a married officer unable to find a house locally.

Details giving age, education, qualifications and experience, with a copy of a recent testimonial, should be sent in an envelope marked "Quantity Surveyor" to the County Architect, County Hall, Northampton, by FRIDAY, 10th JUNE.

J. ALAN TURNER,
Clerk of the County Council.
County Hall,
Northampton.

EASTERN ELECTRICITY BOARD.
NORTHMET SUB-AREA.

SENIOR DRAUGHTSMAN, CIVIL ENGINEERING AND BUILDING SECTION.
124/60.R. (Ref. 968.)

Candidates should have had experience in the preparation of drawings and calculations for reinforced concrete for building and civil engineering work required for 33/11kV substations and be capable of carrying out site surveys and supervising staff. Possession of the Ordinary National Certificate (Building) or equivalent qualification will be an advantage.

Salary: N.J.B. Schedule D, Grade 5 (£830-£940) inclusive of London Allowance.

The successful candidate will be required to contribute to a superannuation scheme and may be required to undergo a medical examination.

Apply by letter to the Manager, Eastern Electricity Board, Northmet Sub-Area, Northmet House, Southgate, London, N.14, by 9th JUNE, 1960.

SALOP
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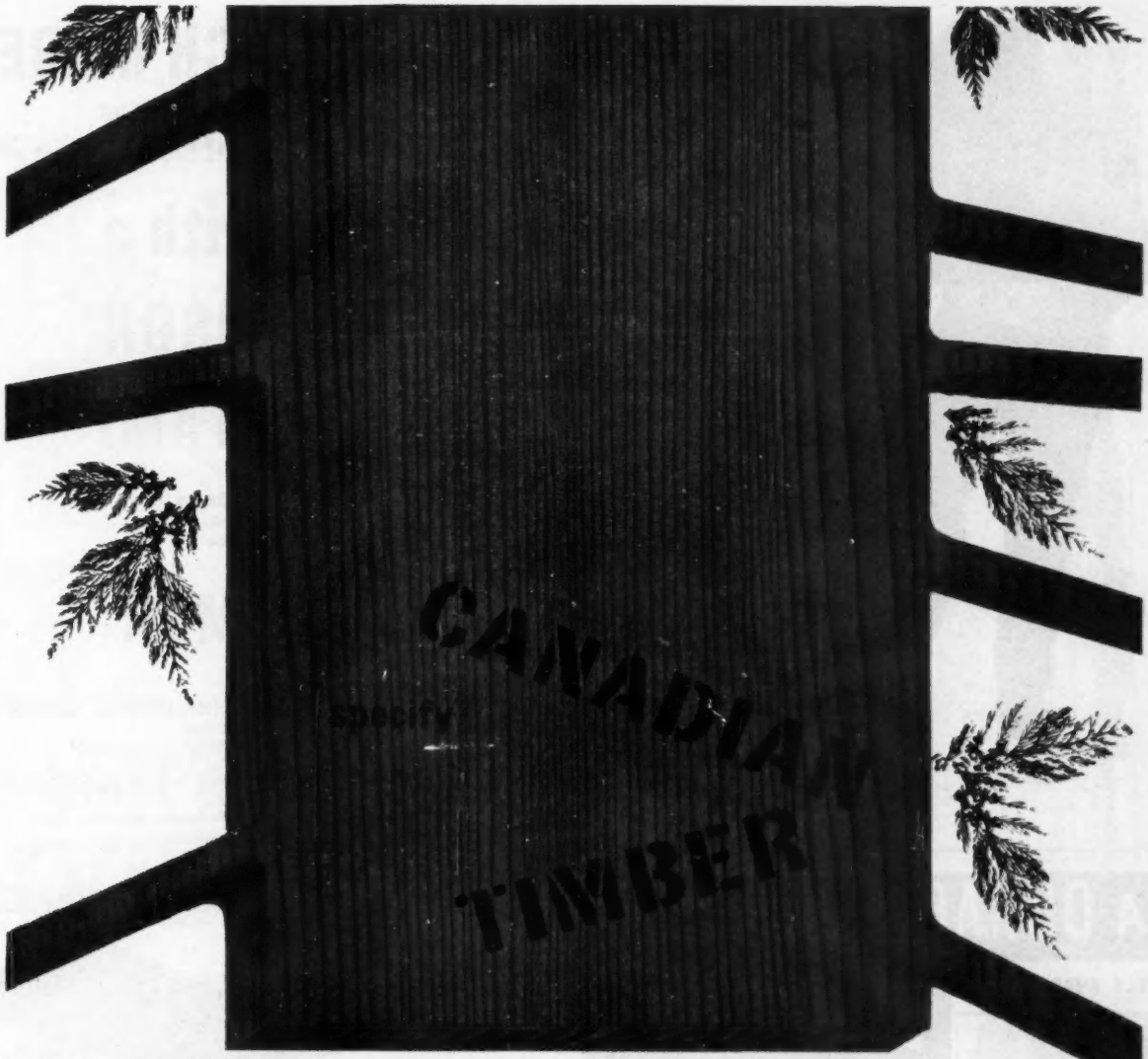

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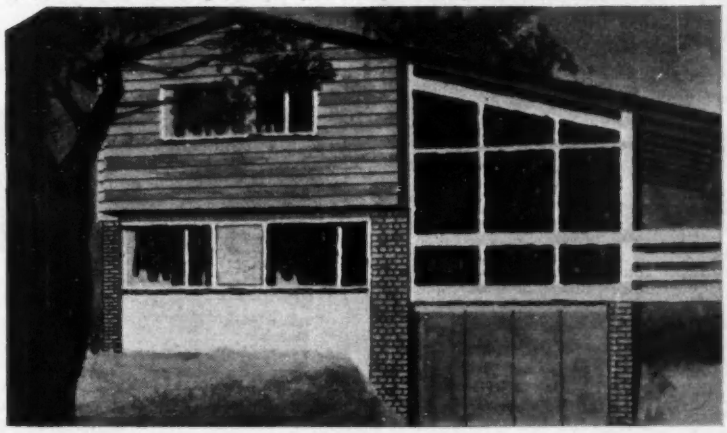

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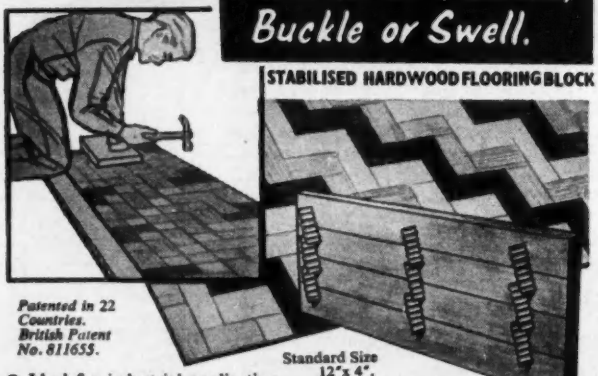

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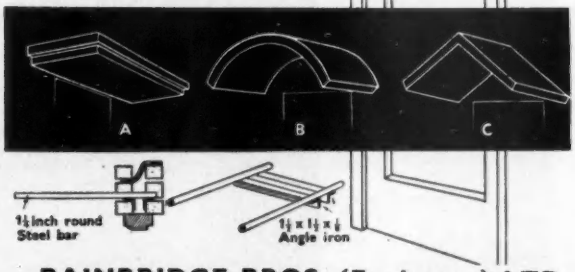

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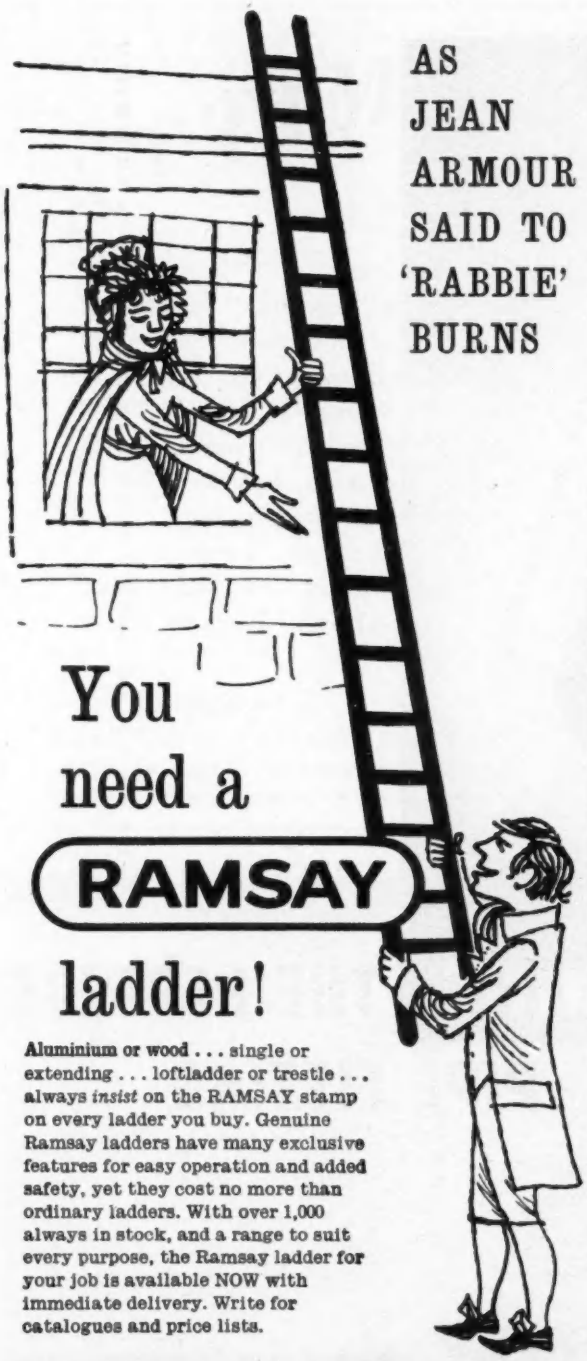

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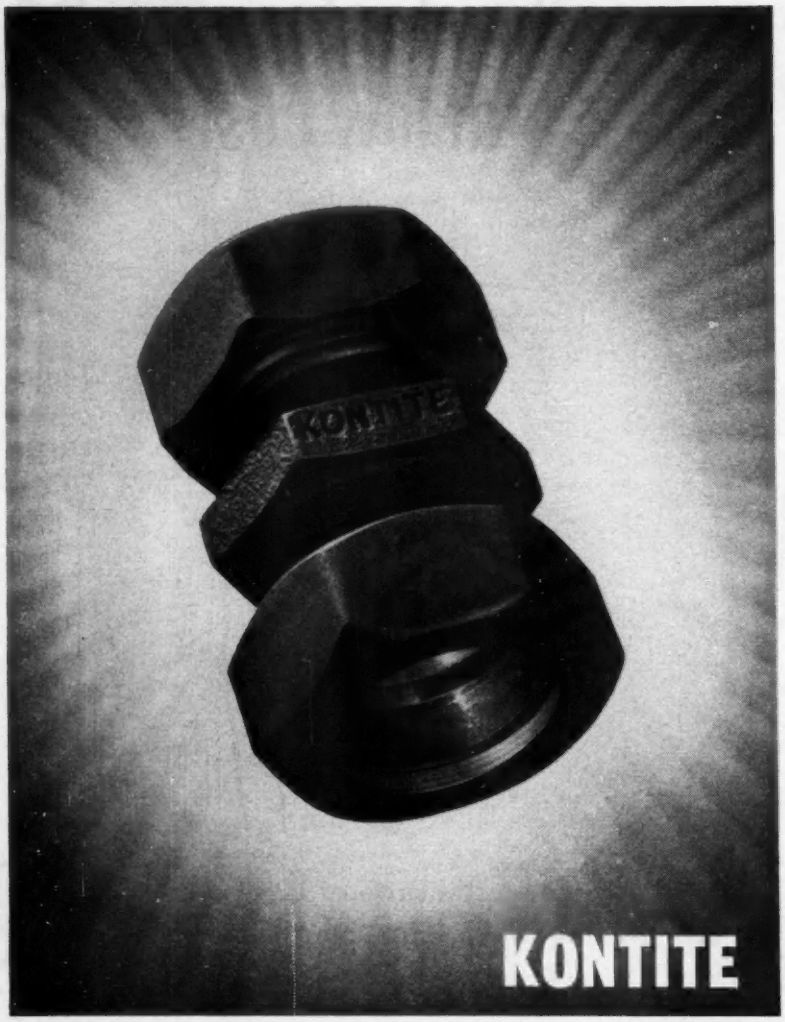

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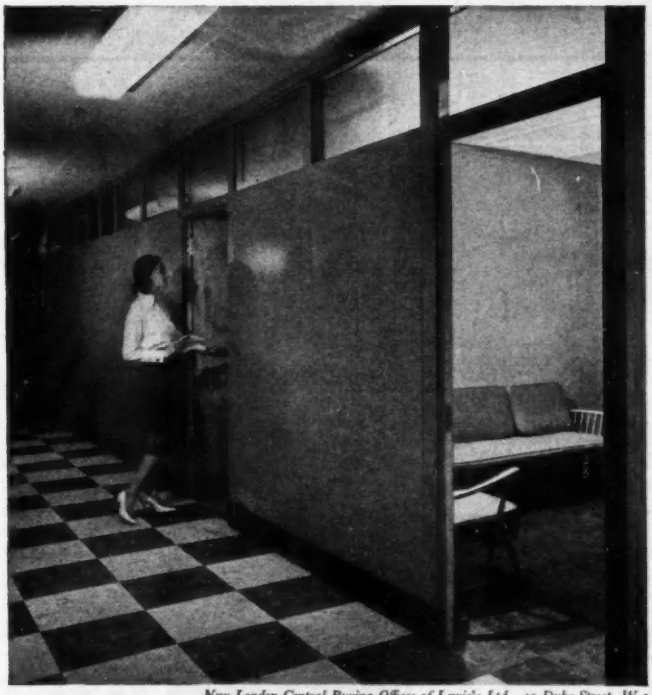

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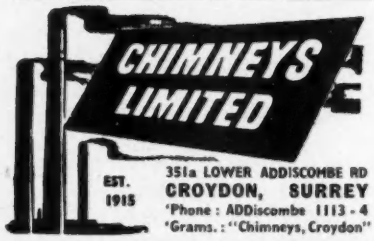

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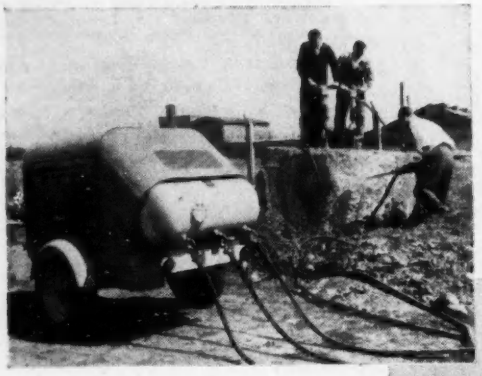

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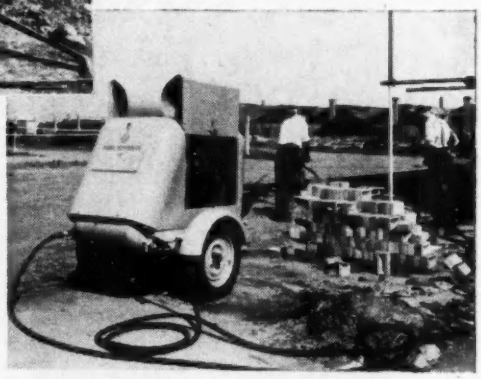

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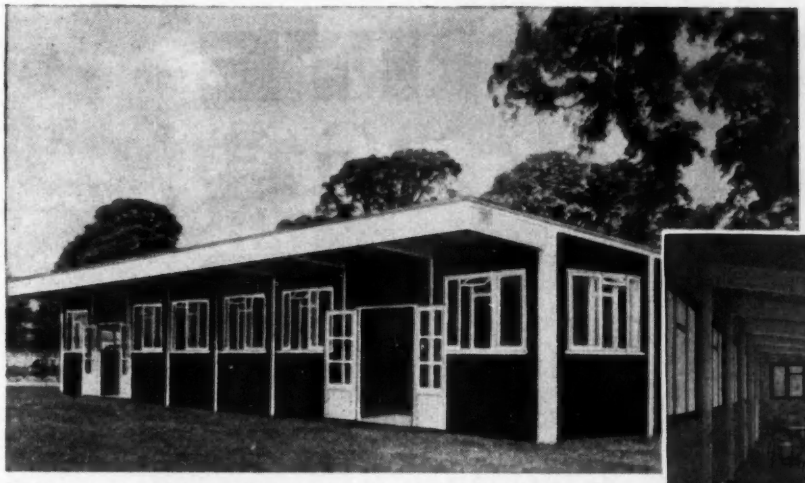

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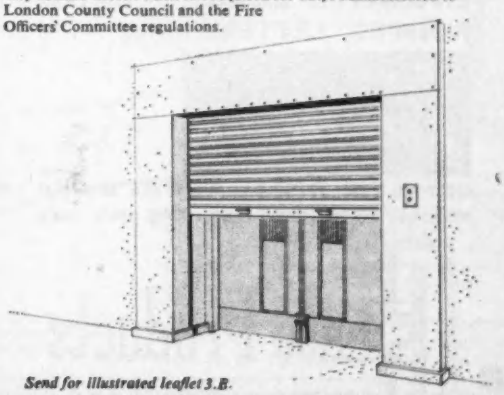

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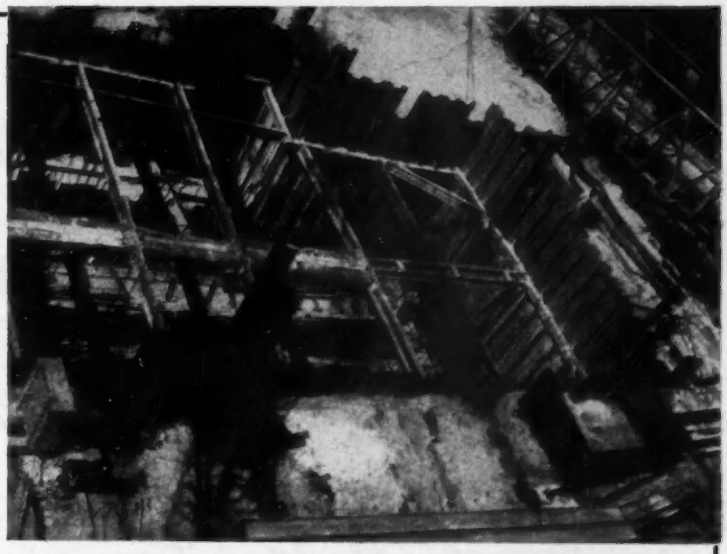

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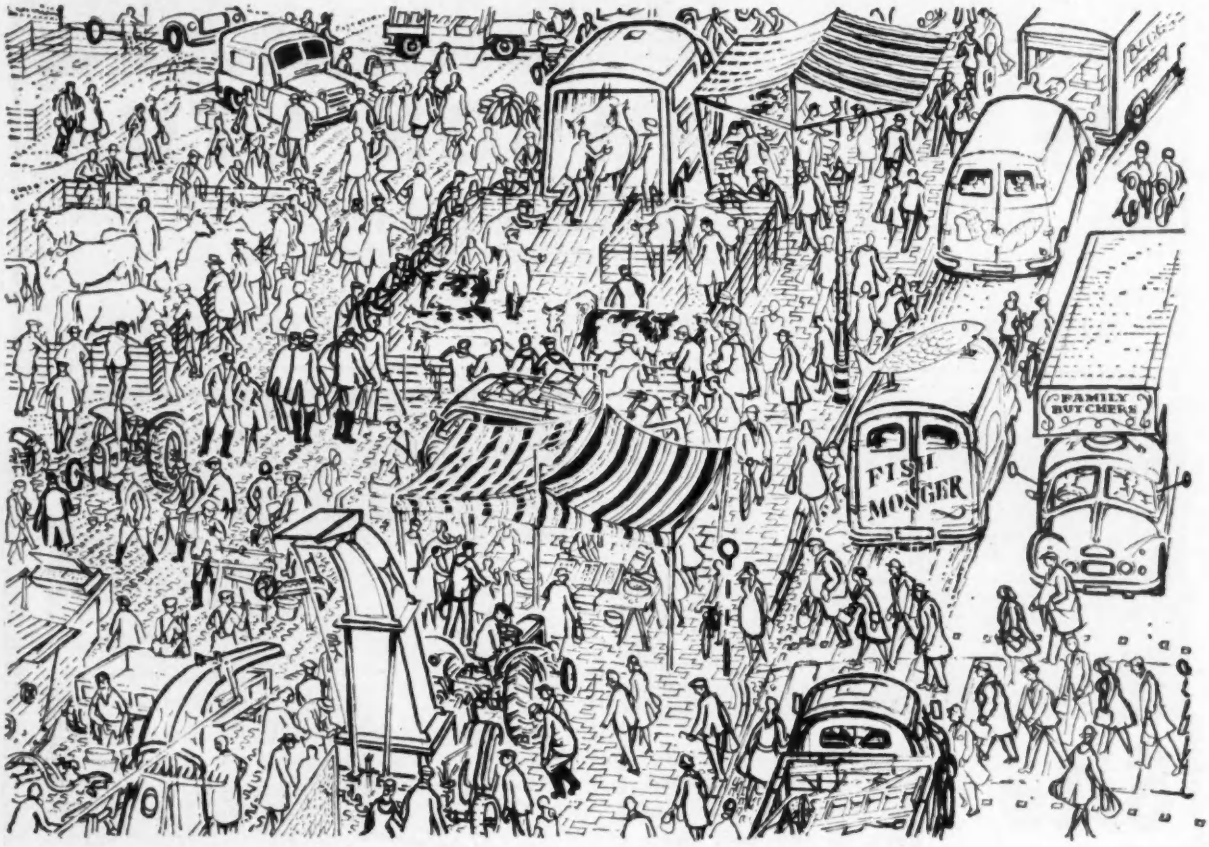

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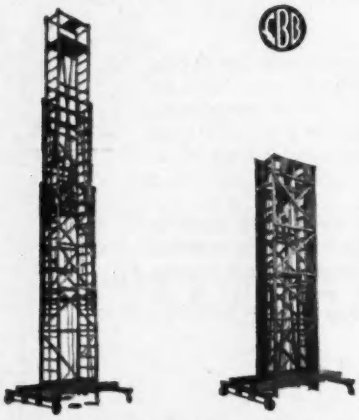

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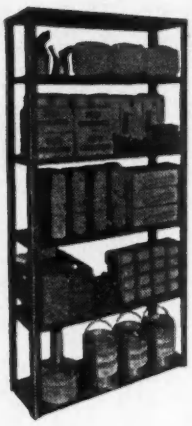

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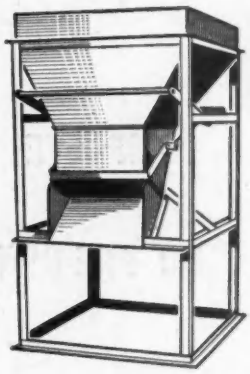

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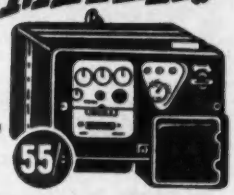

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QUANTITY SURVEYOR with all round experience of site measuring and final accounts. Ability to take-off and prepare estimates an advantage. Pension and life insurance schemes.—Apply stating age, experience and salary required, to C. R. COXILL Ltd. 20 Church-street, Wellington, Shropshire.

TAKER - OFF / MEASURING SURVEYOR (A.R.I.C.S.) Required by London Quantity Surveyors. Five-day week. Pension and Life Assurance scheme. Salary £1,500 per annum. Car provided.—Write stating age and experience to Box 3342, "The Builder."

QUANTITY SURVEYOR Required by North West Building Contractor. Young man with some site experience. Work consists of re-measure, some taking-off, and opportunity to learn estimating. Progressive and pensionable post if initiative shown. —Reply with full details of experience, age and salary required to Box 3352, "The Builder."

ASSISTANT and **JUNIOR QUANTITY SURVEYORS** Required for North Wales Contracts by expanding firm of contractors. Progressive post with pension scheme.—Write full details of age, experience and salary required to Box 3351, "The Builder."

QUANTITY SURVEYORS in Victoria-street Require Qualified JUNIOR ASSISTANT, keen to widen his experience. Applicants will be required to undertake comprehensive duties within the limits of their ability and salary will be in accordance with enthusiasm as well as experience.—Please reply to Box 3376, "The Builder."

EXPERIENCED QUANTITY SURVEYOR

required for Watford Building and Civil Engineering Contractor's Office. Must be capable of handling contracts up to £300,000, measuring, valuations and Final Accounts. Salary in the region of £1,300. Pension scheme, bonus. This year's holiday arrangements honoured. Apply, with all relevant details, to:

Box No. 3290, "The Builder"

QUANTITY SURVEYORS

Senior Quantity Surveyors required for interesting work in Preston office. Applicants should be Chartered Quantity Surveyors and should have had experience on large contracts. Permanent appointments with attractive pension scheme and top level salaries.

Full particulars of qualifications and present appointment and salary to:

Arnold E. Towler, A.R.I.C.S.,
Manfield Chambers,
117 Fishergate, Preston, Lancs.

THE LOWTON CONSTRUCTION CO. LTD.
require the services of

Quantity Surveyors and Assistants

in their London Office at BALHAM, S.W.12

Applicants should have experience in Taking-Off and the Preparation of Bills of Quantities and of the preparation and pricing of Approximate Estimates. Salaries are from £750—£1,100 per annum according to experience and ability. Five day week, pension scheme and annual review of salary and bonus. Congenial working conditions.

Please write, phone or call to:—
Mr. P. A. Smith,
THE LOWTON CONSTRUCTION CO. LTD.
47-51, Balham High Road, London, S.W.12
Telephone: BALham 0121

ASSISTANT QUANTITY SURVEYOR Required in small but busy Chartered Quantity Surveyor's office in Croydon to help in the taking-off, preparation of Bills of Quantities, measurement on site and final accounts of interesting and varied work in London and elsewhere.—Reply for this permanent situation stating age, experience and salary commensurate with experience to Box 3215, "The Builder."

SURVEYORS

QUANTITY Surveyors (Birmingham) have vacancy for SENIOR ASSISTANT for interesting and varied work. Excellent prospects and salary offered to suitable applicants. Superannuation scheme and five-day week operating.—Box 3254, "The Builder."

BONUS SURVEYOR Required for large London contract. Good prospects and salary for experienced man. Pension scheme.—Apply Planning Officer, THE UNIT CONSTRUCTION CO., Ltd., Central Way, Faggs-road, Feltham, Middlesex.

SURVEYOR Required in Estimating Department of Reinforced Concrete Engineers for taking-off R.C. details in structural framing. Applicants with general contracting background and experience preferred.—Apply by letter only, with full details, to DIESPEKER & CO., Ltd., Clifton House, Euston-road, N.W.1.

SITE MEASURER Required in Manchester office of firm of Quantity Surveyors.—Please write stating age, experience and salary required to Box 3282, "The Builder."

ASSISTANT TO SENIOR SURVEYOR Required for measuring Sub-Contractors' work, meeting Quantity Surveyors, preparing cost checks, interim Valuations and Final Accounts. Interesting job for young man aged about 25 years with general experience.—Write stating age, experience and salary required to KIND & CO. (BUILDERS), Ltd., 564 High-road, Leytonstone, E.11.

SURVEYOR Required by London Builders for pre-planning. Applicant must be capable of taking-off, preparing material schedules and site measurement. Commencing salary £900 per annum. Non-Contributory Pension scheme. Excellent opportunity for the right man.—Write stating full particulars to Box 3271, "The Builder."

CHIEF SURVEYOR Required for Bristol office of rapidly expanding Building Contractors. Professional training desirable but must have had several years' commercial experience and be capable of handling current contracts totalling £750,000. Life Assurance and Pension scheme applicable.—Reply, stating age, experience and salary required, to Box 3294, "The Builder."

SURVEYOR/OUTSIDE SUPERVISOR. To control single house conversions S.E./S.W. London. Variations, valuations, final accounts, etc.; car allowance.—Age, details of experience and salary required to Box 3330, "The Builder."

YOUNG SITE MEASURING SURVEYOR (21-25) Required by London Builders. Good opportunity for advancement into Estimating Department at head office. Pension scheme operating.—Write stating age, experience and salary required to Box 3303, "The Builder."

LONDON TRANSPORT has a vacancy for a BUILDING SURVEYOR in the Works and Building Engineer's department, Fulham, for duties concerned with the preparation of estimates, bills of quantities, specifications for work carried out by contract and direct labour, measurement of contractors' work and the settlement of accounts. Applicants should have a thorough knowledge of prices and standard specifications. Salary £855 p.a. rising to £951 p.a. Free travel; contributory superannuation scheme after probation. Applications giving age, qualifications and details of previous experience should be sent to Staff and Welfare Officer (F/EV/7893), LONDON TRANSPORT EXECUTIVE, 55 Broadway, Westminster, S.W.1.

SURVEYOR AND ESTIMATOR Required. West London district. Experienced in alteration work, etc. Salary £900.—Box 3347, "The Builder."

BUILDING SURVEYOR Required for medium-sized progressive builders S.E. London. Conversant with measuring for subcontractors and final accounts, and able to negotiate. Excellent prospects. Permanent appointment. Pension scheme.—State age, experience, salary, in strictest confidence, Box 3343, "The Builder."

ASSISTANT Required by London Surveyors for specifications, accounts, working-up., etc.—Write, stating age, experience, salary required, and when available, to Box 3383, "The Builder."

CHELMSFORD Building Surveyors Require CHIEF ASSISTANT SURVEYOR to assume responsibility of taking-off and to assist in site measuring, etc. Holiday obligations honoured. Write stating experience and salary required.—Box 3122, "The Builder."

EXPERIENCED SITE SURVEYOR Required by professional firm of Quantity Surveyors in Westminster area for final accounts. Good salary and prospects. Five-day week. Luncheon Vouchers.—Apply, Box 2979, "The Builder."

COST SURVEYOR
AND
TECHNICAL BUILDING ASSISTANTS

WILSON LOVATT & SONS LTD.,
Clarence Street,
Wolverhampton

invite applications from young men with H.N.C. and experienced in Site Costing on large building contracts or taking off and scheduling and ordering and phasing deliveries of materials, etc. A good salary and expenses will be paid to the right men and the positions are progressive. Applications should state full history which will be treated in confidence.

Experienced

BONUS AND COSTING SURVEYORS

Senior and Assistant required for Civil Engineering and Roadwork Contracts. Mobility essential. Write, stating age, previous experience and salary required to

Personnel Officer,
A. Monk & Company, Limited,
Padgate, Warrington, Lancs.

SENIOR SURVEYOR
and
CONTRACTS MANAGER

required by

London Building Contractors.

Apply stating experience age and salary required.

Box 3005 'THE BUILDER'

SURVEYOR/ESTIMATOR, experienced, Required for small works department of the London branch of FASSNIDGE SON & NORRIS.—Reply, stating age, experience and salary required, to Head Office, 222 High-street, Uxbridge, Middlesex.

PLASTERING Contractors in South West London Require experienced MEASURING SURVEYOR. Good salary and permanent pensionable position for suitable applicant.—Write, stating age, experience and present salary to Box 975, "The Builder."

BUILDER'S SURVEYOR Required for London office, capable of working on own initiative. Including preparation of Interim and Final Accounts, negotiation with sub-trades. Knowledge of estimating. H.N.C. or L.I.O.B. preferred. Salary in accordance with experience.—Write giving full details to: VIBRATED CONCRETE CONSTRUCTION CO., Ltd., 27 Ashley-place, S.W.1.

BUILDING SURVEYOR. Intermediate standard with minimum of two years' good office experience. Required for Architect's and Surveyor's office. Used to Specifications and small Building Contracts, some drawing ability an advantage. Five-day week, luncheon vouchers. Salary according to experience up to £700 per annum.—Please reply to Box 918, "The Builder."

SURVEYOR Required by old-established Contractors specialising in Reinforced Concrete and finishings of Tiling Marble and Terrazzo. Experienced in taking-off and measuring for final account. (Salary in the region of £1,000.) The position is permanent and pensionable.—Write fully, experience and age to Box 952, "The Builder."

SITE SURVEYOR Required by Chartered Quantity Surveyors, for Civil Engineering Contract in Yorkshire. Probationary period in London office.—Write, stating age, experience and salary required, to Box 956, "The Builder."

FRANKLIN & ANDREWS Require MEASURING SURVEYORS for Contracts in London and the Midlands.—Please reply in writing to 173/175 Fleet-street, London, E.C.4, giving full details of experience and salary required.

MEASURING SURVEYORS, Park-lane improvement, 2 years' Contract.—Apply FITZPATRICK & SON (CONTRACTORS), Ltd., 455 Old Ford-road, London, E.3. ADV 2991.

MEASURING SURVEYORS Required on Contracts in the Blackpool, Preston and Warrington areas. These positions are permanent, progressive and superannuated.—Write, giving full details and salary required, to Housing Director, SIR LINDSAY PARKINSON & CO., Ltd., 6 Lambeth-road, London, S.E.1.

MEASURING SURVEYORS Required by Quantity Surveyors near London Bridge. Five-day week, pension and life assurance scheme.—State age, experience and salary to Box 3169, "The Builder."

MESSRS. OSWALD E. PARRATT Require experienced MEASURING SURVEYOR for their Harlow office. Five-day week, pension scheme, service agreement to suitable applicant. Housing accommodation may be available.—State age, experience and salary required to Adelaide House, London Bridge, E.C.4.

REQUIRED by large Building Contractors, experienced BUILDING SURVEYORS for Oxford area and for Cornwall. Superannuation scheme.—State age and experience to Box 3165, "The Builder."

BUILDING SURVEYOR Required in Architects' office. Duties will include preparation of building and site surveys; site supervision of smaller Contracts, preparation of specifications, and schedules for main and sub-contracts. Car owner preferred. Salary and allowances by arrangement.—Write: F. GREENWOOD, A.R.I.B.A., 18 The Green, Richmond, Surrey.

ENTERPRISING and ambitious SENIOR SITE SURVEYOR Required in Chartered Quantity Surveyors' office to take charge of important and interesting projects. Three weeks' annual holiday and luncheon vouchers. Pension scheme in operation in the office. A salary commensurate with experience will be paid to successful applicant.—Apply stating age, qualifications and salary required, to Box 942, "The Builder."

BUILDING SURVEYOR Required by Westminster Chartered Surveyors. Applicants should have had wide experience in all types of building surveying work, including maintenance of all kinds, dilapidations, pricing, conversions, structural surveys, etc. Varied, interesting and responsible work. Professional qualification an advantage. Salary £900 to £1,000 per annum.—Apply in writing stating age, experience, etc., to Box No. DA1867, c/o WHITES, Ltd., 72 Fleet-street, London, E.C.4.

Y. J. LOVELL (SUSSEX) Ltd. Require capable BUILDERS' SURVEYOR in their contracting department at Horsham.—Please apply giving details of experience, age and salary required, to Bishopric, Horsham, Sussex.

SITE MEASURING SURVEYOR Required for interesting and varied work in Mechanical and Electrical fields.—Applications stating age, qualifications and salary required to FRANK N. FALKNER & PARTNERS, Chartered Quantity Surveyors, Windscale Works, Seascale, Cumberland, or telephone Seascale 462 for appointment.

CHARTERED Quantity Surveyors, Strand area, have vacancy for ASSISTANT with experience in quantity surveyor's office of junior taking-off and site measuring, etc. Also vacancy for JUNIOR WORKER-UP.—Reply stating age, education, practical experience, salary, etc., Box 3240, "The Builder."

QUANTITY SURVEYORS. Excellent opportunities exist for Surveyors with wide experience in the Building and Civil Engineering Industry, competent to work on own initiative, with well-known Company with Head Office in North West. Good prospects, bonus and entry into pension scheme after probationary period. All applications will be treated in confidence.—Reply in writing, giving brief details and stating salary required, to Box 3217, "The Builder."

MEASURING SURVEYOR/TAKER-OFF for London Quantity Surveyors, able to handle Interim Valuations, Deviations and Final Accounts. Must be willing to travel. Salary according to experience and ability.—Box 934, "The Builder."

MEASURING SURVEYORS Required by C. MISKIN & SONS Ltd. Applicants are expected to have experience of measuring for final account and also measuring and settling all sub-contractors' work. These are permanent positions with long established Building Contractors.—Write to: The Secretary, Romeland House, St. Albans, Herts.

JUNIOR SURVEYORS. TOKEN CONSTRUCTION CO., Ltd., Require JUNIOR SURVEYORS to carry out all types of duties. General knowledge of surveying necessary.—Apply in writing to Personnel Director, 68 Mount-street, W.1.

TWO first-class CONTRACTORS' SURVEYORS Required in London office of large project. Only men fully experienced in remeasurement and variation accounts for heavy construction. Salary £1,500-£1,750 according to ability.—Box 3336, "The Builder."

BUILDING/SURVEYOR-ESTIMATOR Required for Contractors, S.E. London area, preferably car driver. State age, previous experience and salary required. Holiday arrangements considered.—Box 3302, "The Builder."

SITE SURVEYORS Required for the following areas: Huddersfield, Catterick and Stafford. These positions are progressive and superannuated.—Write giving full details, experience, age and salary required to the Chief Surveyor, SIR LINDSAY PARKINSON & CO., Ltd., 6 Lambeth-road, London, S.E.1.

SITE MEASURING SURVEYOR, fully experienced in War Department Schedule method, Required by old-established firm of Building Contractors in Wiltshire, for work in connection with Air Ministry and War Department Contracts.—Write stating age, experience and salary required to The Secretary, F. RENDELL & SONS Ltd., Devizes, Wilts.

H. FAIRWEATHER & CO., LTD.
have several vacancies for
SENIOR AND ASSISTANT
COSTING SURVEYORS

in their Planning and Costing Departments. Experience is required in the application of all types of incentive schemes allied to Contract Planning and Method Study. Excellent prospects for advancement with permanent pensionable position.

Please write in confidence, stating age, qualifications, salary required, to: **The Personnel Manager, Hyde Works, St. James's Lane, Muswell Hill, London, N.10.**

2 EXPERIENCED BUILDING SURVEYORS

required for progressive Builder and Contractor based in S.E. London for interesting and responsible work mainly in the London area. Capable of assisting in the management of large contracts from enquiry to final account. Own Staff notified.

Box 3153. The Builder.

TERSONS LIMITED
are seeking
SURVEYORS
and
ASSISTANT SURVEYORS
in the Birmingham area, due to continued expansion.

Excellent salaries and conditions are offered, together with prospects of promotion to executive positions.
Apply in confidence, stating age, previous experience and employers to

Chief Surveyor,
Tersons Ltd.,
4 Dollis Park, London, N.3.

TROLLOPE & COLLS LTD.
require the services of
EXPERIENCED SENIOR BONUS SURVEYOR

for large building contracts principally in London area. Must have sound knowledge of preparation of targets and organisation of bonus schemes.
Apply stating age, experience and salary required to:—

The Assistant Secretary,
TROLLOPE & COLLS LTD.,
1, Noble Street, Gresham Street,
London, E.C.2

SURVEYOR

An experienced Surveyor is required to oin the staff of an expanding London Contractors. The Company has a history of continuous growth and a successful applicant will be expected to work with vigor and initiative. Apply in writing to:—
A. T. CHOWN & CO. LTD.
CHILWORTH STREET, W.2.

EXPERIENCED BUILDING SURVEYORS Required for interesting work in Chartered Surveyors City office. Full knowledge of contractural procedure essential.—Apply in writing to GARRETT, WHITE & POLAND, 5 Dowgate Hill, E.C.4. Tel.: City 9771.

QUALIFIED SURVEYOR Required for supervision of contracts involving the erection of prefabricated structures. Only those with actual knowledge should apply. Car owner or driver essential. Commencing salary £1,250 p.a.—PANEL-LASTIC CONSTRUCTION CO. Ltd., Belvedere Works, Railway-terrace, Feltham, Middx. Telephone: FELtham 5761.

SURVEYOR Required with experience with plasterers. —J. B. ABBOTT, The Winchester Yard, Highgate, N.6. Car available.

SENIOR SITE SURVEYOR Required on permanent staff of National Building Contractors for contracts in the London area. Progressive position with pension scheme, life insurance, etc. Only senior men fully experienced in Contractor's Surveying on large building contracts should apply, to: Chief Surveyor, BERNARD SUNLEY & SONS Ltd., 25 Berkeley-square, W.1.

ASSISTANT SURVEYORS

ASSISTANT BUILDING SURVEYOR Required in Surveyor's Department of guest house organisation. Office N.W. London. Assist generally with maintenance repairs and small building works. Salary £500-£650. Superannuated post.—Reply with full particulars to Box No. 3711, EDGAR G. DUNSTAN & CO., Drayton House, Gordon-street, W.C.1.

SURVEYING ASSISTANT Required by expanding North Kent Contractors, to work with Engineer on land surveys and the setting out of building works. Age 20 to 30. This work involves travelling.—Send brief details, including salary required, to Gough Cooper & Company, Ltd., Wilmington House, Wilmington, Dartford, Kent.

ASSISTANT SURVEYOR Required for Premises Department of City Insurance Company. Age 21-23. Commencing salary £450-£525, according to age and qualifications. Non-contributory pension scheme. Competence in preparation of specifications, working drawings for alterations, etc., essential.—Full particulars of experience, etc., to Box 3331, "The Builder."

ASSISTANT in Property Department. Leading City Insurance Company have a vacancy for a male age 20/26. Minimum educational standard G.C.E. "O" level, 4 subjects, including English Language and Maths. Knowledge of building maintenance and interest in office planning necessary. Staff conditions first class. Non-contributory pension and other staff schemes. Applicants should write giving experienec and personal details and quoting Box 3360, "The Builder."

ASSISTANT BUILDERS' SURVEYOR, Inter, standard, Required by leading estate developers Buckinghamshire. Applicant should be capable of taking-off and scheduling materials and site measuring. The position offers the right man a good opportunity of widening his experience, with consequent advancement.—Apply Box 3268, "The Builder."

ASSISTANT BUILDING SURVEYOR

required by large established Speculative Building Contractors to work at their Head Office in Kingston-on-Thames area. There are excellent prospects, opportunities and superannuation scheme for an ambitious and conscientious man.
Write giving details of age, experience and salary required to **Box 3167 The Builder.**

JUNIORS

WESTMINSTER Quantity Surveyors Require young man 16-18. Applicants must hold General School Certificate. Excellent opportunities for training. Five-day week.—Reply in own handwriting to Box 3210, "The Builder."

TAKERS OFF

CHARTERED Quantity Surveyors Require TAKER-OFF willing to make visits abroad.—Please reply stating age, experience, qualifications and whether married, to Box 3259, "The Builder."

TAKER-OFF Required in Manchester office of firm of Quantity Surveyors.—Please write stating age, experience and salary required to Box 3280, "The Builder."

CHELMSFORD Surveyors Require one SENIOR and one JUNIOR TAKER-OFF experienced in Builders' quantities. Excellent opportunities for progress. Holiday obligations honoured. Write giving details of experience and salary required.—Box 3123, "The Builder."

JUNIOR TAKER-OFF Required by West End Chartered Quantity Surveyor. Salary £800 to £900 p.a.—Reply in writing stating age and experience to Box 979, "The Builder."

TAKER-OFF Required by West End Chartered Quantity Surveyor. Salary £1,000 to £1,200 p.a.—Reply in writing stating age and experience to Box 984, "The Builder."

SENIOR TAKER-OFF Required by West End Chartered Quantity Surveyor. Salary £1,200 to £1,500 p.a.—Reply in writing stating age and experience to Box 961, "The Builder."

JUNIOR TAKER-OFF Required for work in South Coast offices of busy firm of Chartered Quantity Surveyors. Pension scheme, 5-day week. Excellent opportunities for varied experience.—Apply stating age and experience, Box 3145, "The Builder."

SENIOR AND JUNIOR TAKERS-OFF Required by London Chartered Quantity Surveyors.—Please reply stating age, experience and salary required to G. F. K. WHITE & HAYTON, F./F.R.I.C.S., 38-39 Parliament-street, S.W.1.

JOHN LAING AND SON LIMITED
require an
EXPERIENCED TAKER OFF

at their Head Office Age 25-50 with considerable experience of speedy preparation of Bills of Quantities. This position is progressive and pensionable. Five day week and canteen facilities. Apply in writing stating age, experience etc., to Personnel Manager (T.O.3.),

John Laing and Son Limited,
Mill Hill, London, N.W.7.

TAKERS-OFF Required by London Chartered Quantity Surveyors for permanent staff.—Write stating age, experience and salary required to Box 916, "The Builder."

TAKER-OFF of Intermediate to Final standard Required by Westminster Quantity Surveyors. Excellent prospects in London Office and opportunities for overseas tours.—Apply, stating age and experience, Box 923, "The Builder."

MANCHESTER Quantity Surveyors (London Firm) Require TAKER-OFF. Need not be qualified but must be thoroughly experienced. Five-day week. Paid overtime. Pension Scheme.—Box 924, "The Builder."

MANCHESTER. Quantity Surveyors (London Firm) Require Staff. Good salary, Overtime, Pension Scheme. Five-day week. (a) SENIOR TAKER-OFF. Must be experienced man. (b) SENIOR MEASURING SURVEYOR. For duties on Final Accounts. (c) SENIOR WORKER-UP. Must be experienced man. Willing to take responsibility.—Box 926, "The Builder."

TAKERS-OFF, AUSTRALIA (Sydney and Melbourne). Experienced TAKERS-OFF Required for three-year contracts. £A1,900, £A2,000, £A2,100, plus considerable overtime at increased rate, bonus on completion of contract. Fares to Australia paid. Perfect working conditions in air-conditioned office. Extra holidays. Continuation contract may be obtained.—Box 3003, "The Builder."

SYDNEY, AUSTRALIA. A vacancy occurs for experienced TAKER-OFF. Commencing salary £A1,900, excluding overtime. Fare paid.—Box 3004, "The Builder."

TAKER-OFF Required. Sound knowledge of construction essential. Varied and interesting work. —Particulars and salary required to KENNETH G. BARBER, Chartered Quantity Surveyor, 16 Pampisford-road, Purley, Surrey.

TAKER-OFF. Intermediate to Final Standard, Required by firm of Quantity Surveyors in Westminster. Varied practice, five-day week. Paid overtime. —Apply, stating age, experience and salary required, Box 904, "The Builder."

A PERMANENT position exists for a SENIOR TAKER-OFF (A.R.I.C.S.) in the London office of a busy firm of Quantity Surveyors. Salary £1,750 per annum; 5-day week. Pension and Life Assurance scheme.—Write stating age and experience to Box 3339, "The Builder."

EXPERIENCED TAKER-OFF Required by Westminster Quantity Surveyors for responsible post. Excellent prospects. Lunch vouchers. Five-day week.—Write stating age, experience and salary required to Box 991, "The Builder."

EXPERIENCED TAKER-OFF Required by Welwyn Garden City Quantity Surveyors.—Write stating age, details of experience, salary required, to Box 3152, "The Builder."

TAKERS-OFF. Junior and Senior, Required by City Chartered Quantity Surveyors. Five-day week, pension scheme.—State age, experience and salary required to Box 3171, "The Builder."

AUSTRALIA, Sydney. Senior TAKER-OFF Required. Commencing salary £A2,000 p.a. plus overtime. One-, 2- or 3-year contract. Travelling expenses paid.—Box 3181, "The Builder."

TAKER-OFF/MEASURING SURVEYOR (preferably qualified) Required for long-term appointment in branch Site Office in Berkshire by London Chartered Quantity Surveyors. House available. Subsistence allowance. Superannuation scheme. Five-day week.—Write full particulars to Box 3173, "The Builder."

TAKER-OFF

SIMON-CARVES LTD.
require a
TAKER-OFF

Applicants must have at least two years taking-off experience. Age range 25 to 35. This position is permanent and pensionable. Starting salary depending on experience and qualifications, will be in the range of £850 to £1,000 p.a. Good working conditions. Five day week. Three weeks' annual holiday.

Send brief relevant details to Staff & Training Division, **SIMON-CARVES LTD., Cheadle Heath, Stockport, Cheshire, quoting ref. WF.10**

A. S. WILSON AND PARTNERS

CHARTERED QUANTITY SURVEYORS

require the following additional staff.

Takers-Off, Measuring Surveyors and Workers-Up, in their offices at LONDON and ROMFORD.

Please apply stating age, experience, and salary required to:

8, Storey's Gate, Westminster, S.W.1

TAKER-OFF (recent A.R.I.C.S. or this year's finalist) Required by Chartered Quantity Surveyors near Victoria Station. Permanent appointment to work on large and interesting projects. Pension scheme. Luncheon vouchers.—Write full particulars to Box 3174, "The Builder."

HIGHLY experienced **TAKERS-OFF** Required in Chartered Quantity Surveyors' office on work on substantial, varied and interesting projects. A high professional standard is maintained in the office and only applicants with considerable experience should apply. West Central area. Three weeks' annual holiday and luncheon vouchers. Pension scheme is in operation in the office.—Apply stating age, qualifications, experience and salary required, to Box 907, "The Builder."

DEARLE & HENDERSON Require keen, qualified **TAKERS-OFF** for their London, Maidstone and Hove offices. Pension scheme and 5-day week. High salary offered to right applicants.—Reply 75 Victoria-street, S.W.1, or 'phone ABBey 2841.

JUNIOR TAKER-OFF Required by firm of Chartered Quantity Surveyors in London (A.R.I.C.S. preferred). Salary £750-£950. Pension scheme, Luncheon Vouchers.—Please write stating age, experience and salary required to Box 3235, "The Builder."

LONDON firm of Chartered Quantity Surveyors Require experienced **TAKERS-OFF** for long-term contracts in South Wales.—Please apply stating age, experience and salary required to Box 3236, "The Builder."

TAKING-OFF ASSISTANTS (Intermediate standard) Required by Westminster firm of Quantity Surveyors (close Victoria Station). Salary £700-£800 per annum according to experience. Five-day week, overtime extra.—Full details of experience, age, etc., to Box 3209, "The Builder."

TAKING-OFF ASSISTANTS (Final and Intermediate standard) Required for Quantity Surveyors' Sussex office at Brighton. Five-day week, overtime extra. Permanent position.—Reply stating experience, age and salary required to Box 3212, "The Builder."

EXPERIENCED TAKER-OFF Required for permanent position in London professional office. Taking-off and Final Accounts. Basic salary up to £1,500 per annum for capable assistant.—Box 3204, "The Builder."

JUNIOR TAKER-OFF Required by London Quantity Surveyors. Commencing salary £1,000 per annum. Permanent position. Pension and Life Assurance scheme.—Write stating age and experience to Box 3340, "The Builder."

TAKER-OFF of Intermediate to Final standard Required. Five-day week.—Reply, stating age, experience and salary required to GORDON PAYNE AND PREECE, Architects and Surveyors, Gloucester.

TAKERS-OFF (SENIOR and JUNIOR) Required by REYNOLDS & YOUNG, Chartered Quantity Surveyors, 329 High Holborn, London, WC1. Five-day week, pension scheme, lunch vouchers.—Reply to above address, stating age, experience and salary.

CHARTERED Quantity Surveyor (London, W.1) Requires competent **TAKERS-OFF**. Highest salary for suitable applicants. Varied and interesting contracts.—Write stating age, experience and salary required to Box 3334, "The Builder."

TAKER-OFF Required with not less than 2 years' experience in Taking-off. Some unusually interesting contracts. Please state age, experience and salary required.—BASIL A. COHEN, 60 Berners-street, London, W.1.

JUNIOR TAKER-OFF and a MEASURING SURVEYOR Required by Chartered Quantity Surveyors.—Apply, stating age, experience and salary required, to SARJEANT, STIMPSON & PTNRS., 78 Park-lane, Croydon, Surrey.

JUNIOR TAKER-OFF

Required by expanding medium size London Contractors. The vacancy provides an opportunity for a keen and energetic Surveyor to join a progressive company with outstanding prospects. Apply in writing to:—

A. T. CHOWN & CO. LTD.
CHILWORTH STREET, W.2.

WORKERS UP

WORKER-UP Required in Manchester office of firm of Quantity Surveyors.—Please write stating age, experience and salary required to Box 3281, "The Builder."

WIMPEY

Vacancies exist in the Q.S. Section for

WORKERS-UP

Work includes multi-storied development, industrial schemes, housing, civil engineering work etc.
These posts offer scope for advancement and are of particular interest to Workers-up with 3 or 4 years' experience who intend to make their careers in this sphere. Good salaries, excellent working conditions, staff restaurant and Pension Fund (after probationary period).

INTERVIEWS 8.45 a.m. to 5.15 p.m. (or out of office hours).

Write or ring for appointment.

GEORGE WIMPEY & CO. LIMITED,
G. S. Vickery,
27, Hammersmith Grove, London, W.6.
RIVerside 2000, Ext.432

SENIOR WORKER-UP Required by firm of Chartered Quantity Surveyors at their London Office. Capability in assisting with straightforward site measuring an advantage. Consideration given to candidate having similar experience with contracting firm.—Write, particulars and salary, Box 3260, "The Builder."

WORKER-UP Required for Quantity Surveyor's office. Two to three years' experience.—Reply with details to EASTMAN PARTNERS, 21 The Grove, Slough.

EXPERIENCED WORKER-UP Required by London firm of Quantity Surveyors. Salary £850 to £1,000 according to age and experience. Pension and Life Assurance scheme. Five-day week.—Box 3341, "The Builder."

UXBRIDGE firm of Chartered Quantity Surveyors Requires WORKER-UP.—Write, stating age, experience and salary required to BROWN & BIDDIS, 122/123 High-street, Uxbridge, Middlesex.

JUNIOR WORKER-UP Required in Quantity Surveyors' office near Victoria. Good prospects for advancement to permanent senior position. Five-day week, luncheon vouchers. Superannuation scheme.—Write stating age, experience and salary required Box 3335, "The Builder."

WORKER-UP Required with at least four years' permanent working-up experience, by Chartered Quantity Surveyors.—Reply, stating age, experience and salary required, to SARJEANT, STIMPSON & PTNRS., 78 Park-lane, Croydon, Surrey.

WORKER-UP Required by London Chartered Quantity Surveyors.—Please reply stating age, experience, and salary required to G. F. K. WHITE & HAYTON, F./F.R.I.C.S., 38-39 Parliament-street, S.W.1.

WORKER-UP Required by firm of Quantity Surveyors, Westminster. Five-day week and Luncheon Vouchers. Good prospects and opportunities for the right man.—Apply stating age and experience to Box 980, "The Builder."

SENIOR WORKER-UP for London Quantity Surveyors.—Write stating age, details of experience and salary required, to Box 953, "The Builder."

WORKERS-UP Required by London Chartered Quantity Surveyors for permanent staff.—Write stating age, experience and salary required to Box 905, "The Builder."

WORKER-UP Required by London Chartered Quantity Surveyors. High remuneration for good worker.—Please reply, in confidence, to Box 986, "The Builder."

EXPERIENCED WORKER-UP Required by firm of Chartered Quantity Surveyors in West End, London.—Reply stating experience, age, salary required to Box 931, "The Builder."

WORKER-UP Required by professional firm of Quantity Surveyors, Victoria area. Progressive position. Five-day week. Luncheon Vouchers.—Brief details to Box 2977, "The Builder."

WORKERS-UP Required. Senior and Junior.—Apply, in writing, to STANLEY GRIFFITH & PARTNERS, Greycoat Chambers, 9 Greycoat-street, Westminster, S.W.1.

SENIOR WORKER-UP Required by Chartered Surveyors, Westminster.—State experience, age and salary required, Box 3042, "The Builder."

WORKERS-UP Required by City Chartered Quantity Surveyors. Pension scheme, overtime, five-day week.—State age, experience and salary required to Box 3170, "The Builder."

EXPERIENCED WORKERS-UP and intelligent JUNIORS wishing to train for and qualify as Chartered Quantity Surveyors Required in Bloomsbury Chartered Quantity Surveyors' office. First-class working conditions, including luncheon vouchers and opportunities for progressive training offered to suitable applicants.—Apply stating age, experience, if any, and salary required, to Box 937, "The Builder."

WORKER-UP for long-term contract at Newport, Mon., Required by firm of Chartered Quantity Surveyors. Rented accommodation available.—Please write stating age, experience and salary required, to Box 3237, "The Builder."

WORKER-UP for permanent position in London office of Chartered Quantity Surveyors. Pension scheme and L.Vs.—Please write stating age, experience and salary required to Box 3238, "The Builder."

EXPERIENCED WORKER-UP Required for permanent position in London professional office. Basic salary up to £1,000 per annum.—Box 3203, "The Builder."

WORKER-UP Required by professional firm of Quantity Surveyors in Leicester. Progressive training with opportunities for site measuring. Five-day week.—Box 3205, "The Builder."

WORKER-UP with early opportunity to progress to TAKER-OFF wanted in expanding Quantity Surveyors' Office in Gray's Inn. Write stating age, experience and salary required.—Box 3245, "The Builder."

JUNIOR WORKERS-UP and experienced WORKERS-UP wanted in expanding Quantity Surveyors' office in Gray's Inn. Write stating age, experience and salary required.—Box 3246, "The Builder."

WORKER-UP Required by London Chartered Q.S. Holiday this year, additional week for pre-examination study.—Please give age, experience and salary to Box 3244, "The Builder."

ENGINEERS

ENGINEERING ASSISTANT Required by Planning Department of building organisation engaged in large scale residential development throughout the country. The successful applicant will be engaged primarily in the design of roads and sewers and carrying out negotiations with Local Authorities to obtain all advance information for constructional departments. Commencing salary will be commensurate with experience, the Department will be expanding rapidly and there is considerable scope for future advancement. Assistance with housing may be given and a superannuation scheme is in operation.—Please send details to H. C. JANES Ltd., 183 High Town-road, Luton.

ENGINEERS

Applications invited from fully trained Engineers, age range 26 to 46, for interesting Civil Engineering and Building Contracts in the Midlands area by an old-established C.E. and B. Contractor. Experience should cover Industrial and Building, Civil Engineering and Reinforced Concrete, Roads and Bridges, etc. Applications should state training, qualifications, experience, etc. An attractive salary with security and allowances will be paid and the positions are progressive. Applications to:

Box No. 3322, "The Builder"

TECHNICAL ASSISTANTS Required immediately for established South Coast firm, for preparing working drawings for large housing layouts. General experience of roads, drains and water supply essential. Knowledge of traverse, surveys and setting out desirable.—Apply in writing stating age, experience and salary required, to MESSRS. THOMAS, JOLLY, GRANT & KELSEY, 26 Kent-road, Southsea, Hants.

SENIOR and JUNIOR SITE ENGINEERS and QUANTITY SURVEYORS are Required for Civil Engineering and Building Contracts in England and Wales. These are permanent appointments with good prospects. Bonus and Superannuation schemes in operation.—Applications, which will be dealt with in strict confidence, must give details of age, experience, qualifications and salary required and should be addressed to Personnel Officer, TARMAC CIVIL ENGINEERING, Ltd., Ettingshall, Wolverhampton.

CIVIL ENGINEERS Required by national firm of contractors for site construction work and reinforced concrete design work in South Wales, the north of England and Scotland. Age approximately 21 to 30. Wide training experience available with opportunities for promotion. H.N.C. or degree essential. Permanent posts with generous salaries and bonus scheme.—Apply in confidence giving general qualifications and experience to Box 3041, "The Builder."

CENTRAL ELECTRICITY GENERATING BOARD

THIRD ASSISTANT ENGINEER (BUILDING)

GENERATION DEPARTMENT, EAST DIDSBURY

Applicants should be capable of producing designs, specifications, and drawings of buildings to be erected on sites throughout the Region, but not in respect of power station main buildings. A knowledge of the requirements of Local Authorities regarding planning and detail construction is desirable.

Salary £1,090–£1,355 p.a. Pension, sick pay and holiday schemes. Applications stating age, experience and present position to Establishments Officer, Central Electricity House, 825, Wilmslow Road, Manchester, 20, by 31st May. Please quote vacancy No. E.84/261/B.

PA

PERSONNEL ADMINISTRATION LIMITED

MANAGEMENT CONSULTANTS

Our Appointments Division has been asked to advise on the following post:—

DEVELOPMENT ENGINEER

ROOFING CONTRACTORS

for a leading firm of roofing contractors and manufacturers in London. This is essentially a new appointment and will carry responsibility for developing new and improved techniques, specifications and materials for the Company's present contracting work and its extension into other fields. Candidates, aged 25-35, must be university graduates and professionally qualified civil or structural engineers, ideally with both design and site experience, and a proven capacity for original thought. The work demands a wide knowledge of building and construction problems and will involve extensive liaison inside and outside the Company. Starting salary up to £2,000, pension, etc. (Ref. 2407/TB)

The identity of candidates will not be revealed to our clients without their prior permission.

For the convenience of clients and candidates we have Regional Offices in **Glasgow, Manchester, Bristol** *and* **Birmingham** *but, in the first instance, applicants should forward brief details, quoting the reference number, to:—*

PERSONNEL ADMINISTRATION LIMITED
APPOINTMENTS DIVISION
2, ALBERT GATE, LONDON, S.W.1

A major and progressive Company will engage men with one or more of the following qualifications:—

1. **B.Sc.(Eng.) in Civil Engineering.**
2. **A.M.I.C.E.**
3. **At least two years' work towards A.M.I.C.E. qualification.**
4. **G.C.E. 'O' level and practical experience with a large contractor or builder.**

who are between the age of 23 and 32 years and have ambition, initiative and perseverance and a strong desire to take an active part in developing sales to Civil Engineering Contractors and Large Builders. A comprehensive training in technical representation will be given and excellent opportunity exists for men of quality and determination for promotion to executive status. The successful man will be based in the North East of England. Remuneration is by a good salary plus bonus. All expenses are paid and a car is provided. Interviews will be arranged in convenient centres. Applications should give full details of career to date and be sent to:

Box No. 3308, "The Builder"

ASSISTANT ENGINEER AND SURVEYOR for large private development, experienced in the preparation of road and sewer sections, levelling and setting out.—Apply H. DARE & SON Ltd., 962 Alum Rock-road, Birmingham, 8.

CIVIL ENGINEER Required by Consulting Engineers' Darlington Office for work in connection with concrete mix design and site investigations. Applicants should preferably be between 20-25 years of age and possess a University Degree or equivalent. —Applications, stating particulars, should be sent to F. R. BULLEN & PARTNERS, 42 Victoria-road, Darlington.

ESTIMATORS

ASSISTANT ESTIMATOR Required by old-established firm of Quantity Surveyors (close Victoria Station). Five-day week, overtime extra.—Reply in own handwriting stating experience, age and salary required to Box 3211, "The Builder."

YOUNG man 20-25 Required as **ASSISTANT TO JOINERY ESTIMATOR.** Must have fair knowledge of office routine and be prepared to learn all asnects of joinery trade.—R. J. LAKIN & CO. (JOINERY) Ltd., 112 Besley-street, S.W.16. STR 7117.

ESTIMATORS AND ASSISTANT ESTIMATORS Required for medium-sized Builders in East London, competent to deal with all types of work between £2,000-£50,000. Good opportunity for advancement. Bonus and Pension Schemes in operation.—Write stating age, experience and salary required, to Box 3135, "The Builder."

ESTIMATOR/SURVEYOR Required by West London Building Contractors, must be fully experienced in estimating for varied contracts up to £150,000. —Write giving full particulars of age, experience and salary required to Box 3127, "The Builder."

SUPERVISOR/ESTIMATOR with sound knowledge of building trades but with emphasis on good-class decorating. Reputable west of London firm.—Box 3157, "The Builder."

ASSISTANT ESTIMATOR/SURVEYOR Required for Building Contractor's office in Reading, competent to deal with small and medium-sized contracts from enquiry to final account with minimum supervision. House available after satisfactory trial period.—Apply giving full particulars of age, experience and salary expected to Box 3155, "The Builder."

ESTIMATORS SHOP FITTING Required, experience of first-class workmanship, excellent prospects for the right men.—Write or telephone, Managing Director's Secretary, E. POLLARD & CO., Ltd., 159 St. John's-street, E.C.1. Telephone: CLErkenwell 6701.

BUILDING ESTIMATOR Required for interesting and varied tendering for contracts over a wide range of price. Knowledge of modern methods of construction essential. The position is permanent and carries a substantial salary and bonus. Entry into the Company's Superannuation Scheme will be arranged at the end of twelve months' service. —Applicants should write stating age, qualifications, experience to date, etc., to the Chief Estimator, THE MITCHELL CONSTRUCTION COMPANY Ltd., Wharf Works, Peterborough, where applications will be treated in the strictest confidence.

NEW OPPORTUNITIES. Keen, young TRADESMEN Required to train as Estimators, Draughtsmen, Setters-out and Production Assistants, in development of Architectural Aluminium.—Write giving full details of experience to Secretary, UNIVERSAL SHOPFITTING CO. (LONDON), Ltd., Kangley Bridge-road, S.E.26.

ESTIMATOR experienced in pricing conversions, alteration and maintenance works Required for medium-sized Building Contractors. Permagency at high salary with excellent prospects consequent upon expansion.—Apply in writing stating age, experience and salary required.—A. BELL & SON (PADDINGTON) Ltd., and Associated Companies, 58 Kensal-road, W.10.

ESTIMATOR/SUPERVISOR for Builders established 60 years in Central London. Used to alterations, decoration and general building work up to about £10,000. Capable of preparing own specifications for smaller works. Salary £1,000 upwards to the right man.—Apply with full particulars to Box 3200, "The Builder."

ESTIMATOR/SURVEYOR urgently Required by South East London Contractors. Experienced in alterations, conversions and jobbing work. Holiday arrangements respected. Good prospects in an old-established company.—State age, experience and salary required to Box 3196, "The Builder."

ROOFING Contractor Requires ESTIMATOR with up-to-date knowledge of competitive tendering, London office.—Details to Box 3286, "The Builder."

ESTIMATOR AND BUILDING SURVEYOR Required by progressive Company in N.W. Kent. Enquiries are invited from men, age 25 to 35, keen to advance. State experience and salary required.—Box 3298, "The Builder."

JOINERY ESTIMATOR for high quality shop. Must be able to work on own initiative.—'Phone: Sho 2332.

ESTIMATOR/SURVEYOR Required at the Southern Area Office of expanding Building and Civil Engineering Contractors. Further expansion will depend upon the ability of the successful applicant to obtain Contracts in open competition and consequently, advancement will be in direct proportion to the number of Contracts awarded.—Please reply, in writing, stating age, experience and salary required, to LOWTON CIVIL ENGINEERING Ltd., 54/55 Minster-street, Reading, Berkshire.

BUILDING ESTIMATOR Required for prefabricating Building company. Must be fully conversant with Building Trade and able to price off from Line Drawing and B.O.Q. Good prospects for a keen, reliable person.—Write, full details, together with salary required, to ESSEX STONECRAFTS Ltd., Wickford, Essex.

ASSISTANT ESTIMATOR AND MEASURING SURVEYOR wanted, experienced in general Building work. Preference given to applicant aged 25 to 30 and seeking permanency with established firm. Superannuation after probationary period.—Box 3311, "The Builder."

BUILDERS' ESTIMATOR/SURVEYOR Required by old-established firm of Building Contractors on North East coast. Must have had experience in Estimating, Taking-off Quantities, ordering materials, and preparation of Interim and Final Accounts. Write, stating age, salary required and give all details of previous experience. Permanent position for the successful applicant including participation in superannuation scheme.—Box 3310, "The Builder."

ESTIMATOR/ SUPERVISOR

required for Small Works Department of West End Builders specialising in good class alterations and decorations. Contracts up to £15,000.

Write, stating age, experience and salary to

Box 2490, "The Builder"

SHOPFITTING WORKS

REQUIRE

Estimator/Manager.
Fully experienced and able to handle enquiries to final accounts.

Shop Foreman able to set out and use machines.

Good salaries will be paid to right applicants. Write stating age, experience and Salary required to **Box 3198.**

BUILDING ESTIMATOR

AND

PLANNING AND PROGRESSING TECHNICAL ASSISTANT

Wilson Lovatt & Sons Ltd., Clarence Street, Wolverhampton, invite applications from fully trained men with past experience in the above positions which are permanent, and will carry a good salary which will be progressive and there is a pension scheme etc. Applications should state age, training and full history and addressed to the Personnel Manager.

ESTIMATOR

A vacancy has arisen for an experienced Estimator in our Building Division based at Lewisham. Applications are invited from men capable of working from a building drawing. Good prospects exist for the right man in this expanding field.

Please apply in writing to:

Personnel Manager,
THERMALON LIMITED,
75, Grosvenor Street, W.1.

ESTIMATOR

An experienced Estimator is required to join the staff of an expanding London Contractors. The Company has a history of continuous growth and a successful applicant will be expected to work with vigor and initiative.

Apply in writing to:—
A. T. CHOWN & CO. LTD.
CHILWORTH STREET, W.2.

WM. AIREY & SON (LEEDS) LTD.,

invite applications for the undermentioned vacancies. The Company has an attractive salary range and the remuneration will be commensurate with Applicant's qualifications and experience. Apply in writing giving brief details of experience and qualifications to The Secretary, Eldon House, Leeds 2.

SENIOR ESTIMATOR

The successful applicant will be responsible to the Commercial Manager for the preparation of estimates for industrial building and contracts for the Educational Authorities. Assistance will be given in preparing all estimates by Constructional and Planning Departments. Applicants should have five years' previous experience of estimating for projects up to £500,000 and be within the age group 30/45. Non-contributory Pension Scheme. Two weeks annual holday for 1960 will be granted.

MEASURING SURVEYOR

Applications are invited from Suitably Qualified Surveyors for this post. Non-Contributory Pension Scheme. Two weeks annual holiday for 1960 will be granted.

CHIEF ESTIMATOR

(Building)

A Chief Estimator is required to take sole charge of the London Office Estimating Department of a Nationally known Building Contractor. The position, which is naturally permanent and an extremely good one, carries with it an adequate bonus and pension scheme. Applications which will be treated in the strictest confidence will only be considered from those candidates who can prove their competence to estimate for works ranging from £250,000 to over £1,000,000 in value. If you consider that you may be the Estimator we are seeking please write to

Box No. 3156 "The Builder"

BERNARD SUNLEY & SONS LTD.

require

SENIOR ESTIMATOR

Knowledge and experience of detailed price build-up and cost analysis for large contracts essential. Applicants must have experience of tendering for multi-storey buildings using modern plant methods. Progressive post, pension scheme and good salary offered. **Write Chief Estimator, 25 Berkeley Square, W.1.**

SENIOR ESTIMATOR

Required by Building Contractors. Experienced in all types of construction, permanent and progressive position, good salary, pension scheme. Apply, in writing, giving details of age, experience and salary required, to: Managing Director, A. E. SYMES, Ltd., 236-252, High Street, Stratford, London, E.15.

ESTIMATOR/SURVEYOR

required by progressive firm N.E. London. Excellent prospects for suitable applicant. Apply in writing, stating age, experience and salary required to

Box No. 921 "The Builder"

SENIOR ESTIMATOR Required, fully experienced.—Write full particulars, in confidence, DRURY CONSTRUCTION (SOUTHERN) Ltd., 4 Farncombe-road, Worthing.

ESTIMATOR SURVEYOR Required by well-known firm of Building Contractors. Sound experience of building alterations, reconstruction, general maintenance and new works necessary.—Write, in confidence, stating age, experience, salary required, and when free, to Box ES 3423, A.K. ADVERTISING, 212a Shaftesbury-avenue, London, W.C.2.

ESTIMATOR Required by FORD & WALTON Ltd. Applicants must be fully experienced and have a sound knowledge of modern building methods. Employment will be at Stratford, London, E.15 until January, 1961, when the Company is moving to new headquarters being built at Wembley Park, Middlesex.—Applications, giving full particulars, to Chief Estimator, FORD & WALTON, Ltd., Walton House, Warton-road, London, E.15.

ROOFING ESTIMATOR for Slating and Tiling contracts department.—Please write, stating age, experience, and salary required, to Mr. Johnson, A. H. HERBERT & CO., Ltd., 154 Blackhorse-road, E.17.

ASSISTANT or TRAINEE ESTIMATOR. GILBERT-ASH Ltd. have a vacancy in their London Office for a young man (preferably between 25 and 30 years of age) who has a sound knowledge of building construction and quantities and who is anxious to specialise in estimating and settle down to a permanent job with good prospects.—Applications, which will be regarded as confidential, should give age, experience and present salary, and be addressed to "The Secretary," at 2 Stanhope Gate, London, W.1.

D. T. BULLOCK & COMPANY LIMITED

seek to appoint a

CIVIL ENGINEERING ESTIMATOR

This expanding Company of Civil Engineering and Building Contractors requires a first rate man experienced in pricing Civil Engineering and Industrial Building Works up to individual contract values of £250,000.

The successful applicant, aged 24-30 years will be based at Head Office in Aldridge, and being responsible to a Director of this Company, will be required to work largely on his own initiative. Salary and prospects of advancement will be good. Apply in writing:—

Managing Director,
D. T. Bullock & Company Limited,
Aldridge, Staffs.

ESTIMATOR/SURVEYOR Required. N.W. London District, in medium-sized Builder's office. Capable of pricing B/Q and estimating decorations, alterations, etc.—Write stating age, experience and salary required, Box 3373, "The Builder."

JOINERY ESTIMATOR/DETAILER

for Works engaged on purpose made joinery employing 40–50 operatives. Apply in writing giving full details of experience, salary etc. to

R. C. Watson & Co. Ltd.,
Elmgrove Rd., Harrow.

BUILDING ESTIMATOR (preferably between 35 and 45 years of age) Required by long-established organisation of National Contractors for attachment to their Estimating Department in London. Permanency and good prospects for the right man. Non-contributory pension scheme.—Applications (which will be regarded as strictly confidential) should give age, experience and salary required, and be addressed to "The Secretary," c/o Box 3361, "The Builder."

PAINTING SUPERVISOR/ESTIMATOR

(Age 30/35)

For West End work. Practical man, able to work on own initiative.

Position offers good salary and annual bonus on results. Free Pension Scheme.

Box No. 3356, "The Builder"

ESTIMATOR/SURVEYOR Required for medium-sized Builders in East London for contracts up to £70,000. Permanent and pensionable position. Holiday commitments honoured this year.—Write, giving full details of age, experience and salary required, to Box 3359, "The Builder."

MANAGERS

BUILDING Contractor established at National level and currently expanding overseas Requires an experienced man with some overseas knowledge of the contracting industry to undertake liaison duties with overseas subsidiaries, and act generally as assistant to Management on all stages of contract work including pre-planning. Qualified man preferred but not essential, age 30/35 years, good salary and conditions with pension scheme, life assurance, etc.—Write giving details of age, experience, present post, salary, when available, etc., Box 3272, "The Builder."

ASSISTANT TO PREMISES MANAGER of Building Society with head office in L.C.C. area. Professional qualification not essential but must have general knowledge and experience of property matters. The position offers interest and scope to the right man.—Write with full particulars to Box 3255, "The Builder."

PAINTING Contractors in Southampton Require a DIRECTOR (age 27-32). Knowledge of estimating, measuring and job management essential. Commencing salary £1,250 p.a. plus a computed bonus of 7½ per cent. of profits, with transport provided. Successful applicants must reside in or near Southampton.—Write Box 3131, "The Builder," quoting Ref. D.S.

ASSISTANT MANAGER

required for West Middlesex Branch of London Contractors. Specialising in alterations and decorations. Must be able to estimate and supervise contracts and work on own initiative.

Car driver preferred. Write stating age, experience and salary required to

Box No. 3357, "The Builder"

GROUP of Companies wish to appoint a DIRECTOR to take full control of their sectional concrete garage Company near Oxford. Full co-operation will be given by parent and other group companies. Present staff and production are small but there is great scope for an enterprising executive with successful experience in this field. This is an exacting job requiring exceptionally hard work in the early stages. A substantial commencing salary will be paid and a modern house and car are available. Our staff have been informed.—Box 3261, "The Builder."

ANYONE UNDER 32 YEARS OF AGE who considers they have aptitude for management of any kind in specialist painting and plastering businesses should send details of position and salary required, to Kenneth Melling, Personal Assistant to the Chairman of the H.A.T. GROUP, 3/5 St. Pauls-road, Bristol 8, quoting Ref. A.P.P.

PRE-CAST CONCRETE MANUFACTURERS. Expanding group of companies in South West Middlesex invite application from first-class man to assist in factory administration, progressing and quality control. The successful applicant—who must have had similar experience—will be expected to assume full responsibility for output from subsidiary works within a short period of his engagement with a view to ultimate responsibility to Director for combined output.—Please write in confidence, giving age and brief details of experience, to Box 2983, "The Builder."

E. S. GATES, Amersham,

require the following for Permanent Staff.

JOBBING & SMALL WORKS MANAGER

to take charge and expand department at present employing 30 men in all trades.

GENERAL FOREMEN

to control medium size contracts up to £100,000.

WORKING FOREMEN

to control small contracts up to £20,000.

Written applications only stating situation required to:

E. S. GATES LTD.,
Chalfont Station Road, Amersham, Bucks.

CONTRACTS MANAGER

required by expanding subsidiary of a public company engaged in Building and Civil Engineering in the South West region.

We are looking for an ambitious man with a genuine interest in modern management techniques. Remuneration is high, commensurate with the responsibilities attached to the position.

Profit sharing scheme, superannuation and car provided. Assistance will be given with accommodation, if required.

For further details, apply, in strict confidence, to—

R. Gee, F.I.O.B., Director,

John Knox (Bristol) Limited, Winterstoke Road, Bristol 3

CONTRACT PROGRESSOR

An interesting opening has arisen in our Sales Office for a young man of initiative and ability who will be required to progress building contracts throughout the British Isles. This position offers excellent prospects to a man who has a good knowledge of the building trade.

Applications are invited giving full details of career and experience to date to:

Personnel Manager,
FABLON LIMITED,
75, Grosvenor Street, W.1.

WORKS MANAGER Required by City Builders to take control of small Joinery Works and able to estimate for all types of building work. Good prospects.—Write stating age, experience and salary required, Box 3193, "The Builder."

MANAGER Required by small London Building Contractors. He must be capable of inspiring confidence in customers and securing new business. He must also be able to organise and supervise work in progress on a number of small contracts the maximum value of any one contract being £50,000. He must be capable of inspiring loyalty in office and on site. Applicants should preferably be between 30 and 45 and have had practical knowledge and sound qualifications in building construction, quantities and estimating. The salary and bonus will be a good one for a small firm and the prospects for the right man could not be better.—Write Box 3164, "The Builder."

OFFICE MANAGER Required by Bedfordshire builders. Good knowledge of estimating, pricing, builders' accounts, etc. Able to type.—State salary required to Box 3184, "The Builder."

REQUIRED by Roofing Contractors for busy contracts department, MALE ASSISTANT aged 23-35 years. Must be quick at figures and good organiser. Opportunity to take charge when proficient. Salary according to age and ability.—Write Box 3012, "The Builder."

ASSISTANT to Contracts Manager Required by a National firm of Roofing Contractors in London.—Write Box 3285, "The Builder."

BUILDING MANAGER Required to supervise Contracts in London and Home Counties in the £50,000-£250,000 range. Excellent prospects for experienced energetic man.—Box 3305, "The Builder."

EXPERIENCED BUILDING AND C.E. MANAGER seeks change with reputable Contractors South coast area. Approximate salary £1,000 p.a.—Box 3304, "The Builder."

Taylor Woodrow Construction Ltd.

require a

SAFETY OFFICER

for their Nuclear Power Station Contract, Nr. Bridgwater, Somerset.

Knowledge of Building Regulations and heavy civil engineering work essential. Salary commensurate with responsibility.

Write stating age, experience, etc., to:

Personnel Manager,
Ruislip Road, Southall
Middlesex.

CONTRACTS MANAGERS

Applications are invited from practical men with wide experience of production on large housing estate for appointments as Area Contracts Managers.

This is an opportunity for competent men with drive, initiative and personality to secure permanent and pensionable appointment with a large and successful organisation.

Attractive conditions offered, men in age range 35–45 who will produce results. Details of career and salaries earned to:

Box No. 3289, "The Builder"

THE ADVISORY SERVICE FOR THE BUILDING INDUSTRY
has been retained by A. H. Guest Ltd., of Stourbridge, Worcestershire to advise on these senior appointments.

CONTRACTS MANAGER—G/1
CHIEF SURVEYOR—G/2

The occupants of both these positions will be responsible to the General Manager for the efficient running of their Departments, and should be technically qualified and experienced for work on general, industrial and commercial contracts.

The **CONTRACTS MANAGER** should be between 35/45, have had at least 3/5 years managerial experience of running major and minor contracts in a similar capacity. He should also be able to instil enthusiasm and team spirit in site and office staffs and make full use of management techniques such as planning and work study.

The **CHIEF SURVEYOR** should be about 35 years, be experienced in measuring and final accounts, and in the administration of other senior staff. He should have knowledge of cost and value comparisons, the building-up of operation costs and be experienced in expediting agreement on variations and dayworks throughout the contract.

Both these posts are pensionable, a car is provided and assistance would be given in obtaining accommodation. Write in the first instance, stating age, qualifications, experience and salary required to **B.A.S., 82, New Cavendish Street, London, W.1.**

ASSISTANT

BUILDING MANAGER

required for INDIA by

The Cementation Group of Companies.

Building work to the value of £1,000,000 at the Durgapur Steel Works Site includes an 8 storey office block, laboratories, area offices and works buildings.

Applicants, preferably qualified and between 35 and 40 years of age, will have administrative experience with a large building Company, and experience of quantity surveying, tenders, and sub-contract payments.

The tour will be for approximately 2 years, with an attractive salary, Indian Income Tax free. Married accommodation available after an initial period. A site bonus scheme is in operation.

Please write stating age, experience, present salary and quoting 212 to:

The Personnel Officer,
The Cementation Company Ltd.,
20, Albert Embankment,
London S.E.11.

A NEW BUILDING AND CIVIL ENGINEERING COMPANY IN SOUTH WEST WALES

requires the following Key Personnel with personality, initiative and a keen interest in the Industry.

A. **GENERAL AND CONTRACTS MANAGER** to develop and expand this new Company, obtain Contracts, and generally supervise the efficient working of the Contracts. The Candidate should be fully experienced in all departments of the Building and Civil Engineering Industry.

B. **QUANTITY SURVEYOR.** Fully qualified, A.R.I.C.S., or A.I.Q.S. to control the Estimating, Site Measurement and Final Accounts.

C. **TAKER-OFF AND ESTIMATOR.** To assist the Quantity Surveyor, take off, estimate and control Sub-contractors and suppliers enquiries.

D. **CHIEF CLERK.** To institute and maintain an efficient General Office, experience with Indemnity Bonds, etc., Insurances essential.

Good Salary Scales offered for these important Posts. A Non-Contributory Pension Scheme is in operation. Ample scope and opportunity for resourceful men with integrity and enterprise.

Applications stating Age, Qualifications, Experience and Interests, together with details of present appointment to:—

OFFICE MANAGER,
DAVIES AGRICULTURAL SERVICES, LTD.,
Burton Chambers, King Street, Carmarthen

CONTRACTS MANAGER

required for well-established and expanding firm of London Contractors. Must be experienced in the control of a group of contracts ranging in value from about £10,000 to £200,000. Experience as builders surveyor essential. It is intended that this important position will be progressive, permanent and pensionable. An experienced assistant contracts manager might be considered with a view to promotion after proving period. Only candidates of first class ability and good bearing should apply. Existing holiday commitments would be accepted. Apply in writing stating age and experience to

Courtney & Fairbairn Ltd.,
377, Albany Road,
Camberwell, S.E.5

ASSISTANT TO BUILDING MANAGER Required by County Builders, established 60 years, with first-class mixed business. Essential qualifications are basic estimating, elementary quantities and general requirements of office routine. When established will be required to work on own initiative to finality. Salary minimum £600, according to experience. Positive prospects for an advancing career.—HOAD & TAYLOR Ltd., Market-square, Horsham.

ASSISTANT TO BUILDER'S MANAGER Required, capable of dealing with contract management and organisation, particularly alterations and extensions to industrial buildings. West London area. Minimum salary £1,000.—Box 3346, "The Builder."

TROLLOPE & COLLS LIMITED

require the services of

EXPERIENCED BUILDING MANAGERS

for large building contracts principally in London area. Apply stating age, experience and salary required to:—

The Assistant Secretary,
TROLLOPE & COLLS LTD.,
1, Noble Street,
Gresham Street, London, E.C.2.

JOINERY MANUFACTURERS Require ASSISTANT TO WORKS MANAGER at modern works producing mainly high-class hardwood joinery. Permanent and progressive post for right man. Pension scheme. —Write, full details of age, experience and salary required to Box 3350, "The Builder."

SMALL CONTRACTS MANAGER Required, East Berks, to supervise small works department and Contracts up to £15,000. Applicant must be a good estimator and an experienced practical man able to deal with work from enquiry to final account and organise and supervise labour. Good opportunity for keen and energetic man.—Reply, giving age, experience, references and salary expected, Box 3345, "The Builder."

CLERKS OF WORKS

CLERK OF WORKS Required for Laboratory projects near Manchester. Duration approximately one year. Previous experience of Laboratory work essential. Salary by arrangement. Interviews London or Manchester.—Box 3159, "The Builder."

EXPERIENCED CLERK OF WORKS or ex-site agent Required for new building project just started in Manchester. Salary £1,000 p.a. or by arrangement.—Write Box 3287, "The Builder."

CLERK OF WORKS Required for large project, by RONALD WARD & PARTNERS, 29 Cheshamplace, Belgrave-square, S.W.1. BELgravia 3361.

BUYERS

JUNIOR MALE Required for S.W. London Building Contractors' Buying Office. The successful applicant will be fully trained and every facility given for further studies.—Box 3256, "The Builder."

BUYERS Required by progressive firm of Building and Civil Engineering Contractors in North West. Good prospects for first-class men. Details of experience, age and salary required to Box 3273, "The Builder."

ASSISTANT BUYER Required by London Civil Engineering Contractors, age 23-30, knowledge of Quantities desirable.—Apply in writing giving age, experience and salary required to Chief Buyer, PETER LIND & CO., Ltd., Romney House, Tufton-street, S.W.1.

BUYER

required in Builders' London Office

Must be fully experienced in placing detailed orders, keeping accurate records for progressing, calling forward deliveries and chasing to maintain strict building programmes. Some experience in costing and estimating an advantage. Good prospects. Reply, stating age, past experience, etc. to

Lawdon Partners Ltd.,
157 Victoria Street, S.W.1

REPRESENTATIVES

FIRST-RATE SALESMAN Required by old-established Manufacturer of Chemical Products for the Building trade. Car owner, resident in Tunbridge Wells area, is offered exclusive territory in Kent, Sussex and Surrey with payment by salary, expense allowance and bonus.—Write fully, giving details of experience and trade connections to Box 3267, "The Builder."

£1,000 PER YEAR, selling Chemical Aids to the building trade. If you are a first-rate salesman, have a good connection within approximately 20 miles of your home and only carry one other main line, then write, giving details. Exclusive territory. Repeat orders. Monthly payment of commission and bonus. Old-established company.—Box 3163, "The Builder."

EXPERIENCED REPRESENTATIVES,

Already calling on woodworking trades and large timber users, required in various areas to sell established line, with large and rapidly expanding potential, of heavy duty fastening equipment, including consumable fasteners. Exclusive territory and generous commission terms offered. State age, experience, territory covered to

Box 947, "The Builder".

POTENTIAL SALES REPRESENTATIVES

required for immediate training to enable chosen men between the ages of 24–28 years to participate in representing this company in the field of prefabricated timber buildings. Keen, team minded men will be chosen on their evidence of character, drive and general ability. General knowledge of the building trade is more essential than selling experience in the immediate past. Applicants should be from the Birmingham area.

Apply in writing giving full particulars to the

Sales Manager,
Robert H. Hall & Co. (Kent) Ltd.,
Paddock Wood, Tonbridge, Kent.

A SENIOR REPRESENTATIVE is Required for the West Midlands, Wessex and South Wales area by leading nationally known manufacturers of prefabricated timber building systems; sound knowledge of building construction is essential; architectural background with experience of prefabrication or timber structures would be a considerable asset. This is an opportunity for a capable sales executive able to initiate, maintain and successfully finalise technical and commercial negotiations at high level. —Send fullest details of qualifications and experience and career with age and salary levels in chronological order.—Box 3191, "The Builder."

REPRESENTATIVE

required for the

LONDON AREA

by a well established Company to promote sales of specialist industrial FLOORING AGGREGATES AND WATERPROOFING ADDITIVES through architects and consulting engineers.

Excellent opportunity for an experienced salesman with knowledge of the building industry, who intends to earn not less than £1,500 per annum. Guaranteed minimum salary with very good commission. Car allowance, superannuation scheme.

Write in strict confidence, quoting reference 222 to:

The Personnel Officer,
The Cementation Company Limited,
20, Albert Embankment,
London, S.E.11.

BUILDERS ASSISTANTS

ASSISTANT Required for small Contractors N. London. Suitable for young man studying for L.I.O.B. or H.N.C. with some experience quantities, drawing, etc., to assist generally in estimating and running contracts up to about £20,000.—Reply giving full particulars to Box 3283, "The Builder."

SUB-CONTRACTORS. Experienced man Required for the recruitment and obtaining of prices from Sub-Contractors of all trades in all parts of England and Wales. This is a permanent, pensionable position.—Apply in writing, giving full details in confidence, to: L. T. White, DAVIS CONTRACTORS, Ltd., 350 Kilburn High-road, London, N.W.6.

MEDIUM-SIZED BUILDERS have a vacancy for young man (18-20) as ASSISTANT to the principal. Duties will include Contract Management, Estimating, Accounts, for which training will be given. Applicants should have had a technical training and ability to drive will be considered an advantage.—Write, stating age, experience and salary required, to MESSRS. H. RANDELL & SON, Ltd., 72 Webb's-road, London, S.W.11.

AGENTS

AGENTS/GENERAL FOREMEN Required by leading and progressive Company of Estate Developers for sites in Home Counties. Excellent salary and prospects of advancement.—Apply, McMANUS & CO., Ltd., Mimms Hall-road, Potters Bar, Middlesex. Potters Bar 2315.

SITE AGENTS/SITE FOREMEN, conversant with reinforced concrete caisson construction and mechanical plant Required for U.K. locations by RANNEY METHOD WATER SUPPLIES, Ltd., 12 Queen Anne-street, W.1.—Apply in writing giving full particulars, salary and experience.

AGENT Required for R.A.F. Maintenance Contract, Berkshire. Applicant should be C. & J., between 30-50 years age, strictly honest, car driver, possess initiative and drive. Salary not less than £900 p.a. Full details of experience and names of previous employers essential.—Box 3201, "The Builder."

AN AGENT is urgently Required to take charge of an extensive Speculative Flat (3-storey brickwork) development in Leeds. £1,500 p.a. will be paid to the right man who will have the opportunity of starting with a new and expanding Department.—Apply in writing to SIR LINDSAY PARKINSON & CO., Ltd., Northern Area Office, Templenewsam, Leeds, 15.

BUILDING AGENTS and GENERAL FOREMEN

required in the
Glasgow, Birmingham and Manchester areas.

Applicants must be fully experienced in Reinforced Concrete Structures and modern techniques.

Salaries will be high, but in accordance with experience.

Apply, stating age, and giving details of experience and previous employers to:

Box No. 3338, "The Builder"

AGENTS

are required for senior appointments on large construction contracts in various parts of the country.

Applicants will be required to have a sound experience on a wide variety of contract work. L.I.O.B. or A.M.I.C.E. qualifications preferred. Age 30-40.

These appointments offer progressive and permanent employment with Superannuation Scheme.

Salary will be commensurate with experience and qualifications.

Apply in writing to:

P.M. (A.10.)
John Laing & Son Limited,
London, N.W.7.

SITE AGENTS AND GENERAL FOREMEN

Sir Lindsay Parkinson & Co. Ltd., invite applications for the above positions. Applicants who must be fully experienced in carrying out major building contracts of all types should forward all details to:

Building Director
Sir Lindsay Parkinson & Co. Ltd.,
6, Lambeth Road,
London, S.E.1.

AGENTS

Applications invited from men qualified to carry out large Civil Engineering and Building Contracts with full administration at the sites. State age, qualifications, and full history of past experience which will be treated in confidence. The positions are in the Midlands area on interesting contracts for a well known National B. & C.E. Contractor and will carry an attractive salary with security and allowances suitable to the position. Applications to

Box No. 3320, "The Builder"

WIMPEY

The Company proposes to recruit
a limited number of

SENIOR BUILDING AGENTS

for contracts in
LANCASHIRE and SOUTH WALES

Applications are invited from men aged 35 to 45, who have varied experience of contract building and, in addition, have proven records of supervision of contracts.

These permanent appointments will carry good initial salaries and opportunities exist for promotion. A contributory Pension Scheme is in operation.

Applications to:—

Establishment Officer,
GEORGE WIMPEY & CO., LIMITED,
27, Hammersmith Grove, London, W.6.
Ref. 982.A.

AGENTS and **GENERAL FOREMEN** Required for all types of Contracts in London and the Home Counties. Salary commensurate with ability. Bonus and pension schemes immediately available.—Apply giving particulars of experience, etc., to Contracts Manager, A. A. STUART & SONS (GLASGOW) Ltd., 10 Upper Grosvenor-street, London, W.1.

FOREMEN & SUPERVISORS

W. & C. FRENCH Ltd. Require two GENERAL FOREMEN CARPENTERS, time-served, with specialised experience of shuttering and overall control for reinforced concrete construction of water retaining structures. Both vacancies offer staff benefits. Applications will only be considered from persons who have supervised large scale contracts. —Apply in writing, stating age, experience, salary required, to Personnel Manager, 50 Epping New-road, Buckhurst Hill, Essex, quoting Ref. 558.

GENERAL FOREMAN Required by medium-sized East London builders for work in the London area. Must have had first-class all round experience and knowledge of new and alteration work. The position is permanent to a man of ability and carries participation in Pension scheme.—When replying, state age, experience and salary required, to Box 3264, "The Builder."

EXPERIENCED GENERAL FOREMAN Required for housing site by well-established, medium-sized firm of Building and Civil Engineering Contractors.—Applicants must be prepared to travel and should write stating age, experience and salary required to GOUGH COOPER & CO., Ltd., Wilmington House, Wilmington, Dartford, Kent.

GENERAL FOREMEN Required by McMANUS & CO., for Private Estate Development work in Home Counties.—Write or 'phone: Mimms Hall-road, Potters Bar, Middlesex. Potters Bar 2315.

FOREMAN

Experienced Cable Laying and Trench Excavations. Must be mobile, active, able to control and organise labour and submit reports. Knowledge of estimating an advantage. Permanent. Prospects. Pension and incentive scheme.

Write fully,
CABLE JOINTERS Ltd.,
Acton, W.3.

GENERAL FOREMEN Required for Private Estate, housing sites in South, South-East and East. Applicants should have at least five years' previous experience of Private Estate Development including roads and sewers. Good salary and bonus paid. Every effort will be made to provide continuity of work for those proving their efficiency.—Write giving full details of experience to Box 3276, "The Builder."

J. DOUGLASS MATHEWS & PARTNERS, Chartered Architects, Require experienced resident SITE SUPERVISORS on a permanent staff basis. Applicants must be prepared to go anywhere in the United Kingdom for resident appointments of one, two or three years. Salary £1,250-£1,750 according to job, experience and qualifications. Applicants to gives names of at least three architect or engineer references.—Reply to 3, Ebury-street, London, S.W.1.

BUILDER'S HOUSING SITE FOREMAN/AGENT. —Write, stating age, experience and salary required, CORY, Builder, East Wittering, near Chichester.

GENERAL FOREMAN, used to alteration and conversion work. Required in General Works Department of KILLBY & GAYFORD Ltd., 87 Worship-street, London, E.C.2. Write or call with full details to Secretary.

GENERAL FOREMAN Required for Development of Factory Estate 20 miles West of London. Permanent position for keen, energetic man residing in the area and with experience of progressing medium-size industrial contracts. Vacancies also for CARPENTER and BRICKLAYER TRADE FOREMEN.—Write stating experience, age and salary required, Box 3216, "The Builder."

SUPERVISOR to take charge small contracts and jobbing work (E. London area). Knowledge of Builders' quantities; able to drive.—Write, in detail, experience, etc., to Box 3030, "The Builder"

SENIOR GENERAL FOREMAN

Several vacancies in the Midlands area for fully trained men to take charge of contracts, viz., Industrial and Building, Civil Engineering and Reinforced Concrete, Roads and Bridges, etc. A well known National C.E. & B. Contractor invites applications in confidence and you should state age, training, experience, etc. An attractive salary with security and allowances will be paid to the selected applicants. Applications to:

Box No. 3321, "The Builder"

GENERAL FOREMAN

required.

Write, giving full particulars to:
F. & H. F. Higgs Ltd.,
Station Works,
2, Herne Hill Road, S.E.24.

JOINERY WORKS GENERAL FOREMAN

for purpose made joinery. Must be capable of handling numerous small jobs as well as larger. 40–50 operatives. Present works now being rebuilt and re-equipped. Good opportunity. Apply in writing giving experience, qualifications, salary etc. to

R. C. Watson & Co. Ltd.,
Elmgrove Rd., Harrow.

WALKING FOREMAN to supervise small contracts for an old-established firm of Building Contractors. It is essential that the applicant shall have had previous experience of this type of work, and is capable of maintaining discipline and economical control of labour and appreciates the absolute necessity of pre-planning work.—Apply in strict confidence to the Managing Director, Box 3199, "The Builder."

GENERAL FOREMAN Required East London for Commercial Building. Bonus Scheme.—Reply, Box 3344, "The Builder."

ASSISTANT GENERAL FOREMAN or **SENIOR FOREMAN CARPENTER** Required to train as General Foreman. Initially on a contract at Kingston-on-Thames. Excellent opportunity for right man in expanding organisation.—Write, giving details of experience, technical education and age, to WILLIAM WILLETT (CONTRACTORS) Ltd., Sloane-square, S.W.1.

JOHN LAING AND SON LIMITED

invite applications from experienced General Foremen, Foremen Carpenters and Foremen Bricklayers under 35 years of age.

The appointments offer opportunities and training for increased responsibility in supervision and applicants should have suitable technical qualifications.

Full mobility required and interested persons should apply in writing stating age, experience and qualifications to

Personnel Manager (G.F.2.)
John Laing and Son Limited,
London, N.W.7.

W. J. WHITTALL & SON, LTD

Birmingham and London
have vacancies for

GENERAL FOREMEN

on contracts in the West and North-West London Area, who have sound constructional knowledge and are experienced in the speedy erection of industrial and other buildings. The posts carry good salaries commensurate with abilities and a pension scheme is in operation. Interviews can be arranged either in London or Birmingham, but initial written application enclosed in an envelope marked "General Foreman" should give details of age, training and career to:

W. J. WHITTALL & SON, LTD
Builders & Civil Engineers,
Ernest Gardens, Thames Road,
London, W.4.

CONTRACT SUPERVISORS

Two Contract Supervisors required for busy N.W. London Building Contractors.

Essential Qualifications: Practical experience in site supervision of several contracts running concurrently (£10,000—£50,000 each). Ability to control own labour force and Sub-Contractors.

Applicants should have drive and initiative and capable of a profitable contribution towards an expanding Contractors organisation.

Car provided, superannuation after probationary period and existing holiday arrangements honoured.

Reply, giving full details of experience and salary required to:

Box 3197, "The Builder"

EXPERIENCED
GENERAL FOREMEN

urgently required for large contracts in London.
SALARIES UP TO £1500 per annum.
Write stating qualifications to **Box 3168 The Builder.**

ST. CHARLES' HOSPITAL, Ladbroke-grove, W.10. GENERAL FOREMAN (Building Trades) Required to generally supervise small maintenance staff, etc. Rate 5s. 8d. per hour. Applications, in writing, should state trade and supervisory experience, technical training, etc.—Applications to Superintendent Engineer, PADDINGTON GENERAL HOSPITAL, Harrow-road, W.9.

FINISHING FOREMAN, GENERAL FOREMAN and **SITE AGENTS** Required by large and expanding company of Estate Developers. Good pay for right applicants.—Write or 'phone: Chief Surveyor, McMANUS & CO., Ltd., Mimms Hall-road, Potters Bar, Middx. Potters Bar 2315.

SITE FOREMAN Required for small housing sites West Middlesex/South Bucks area.—Write to ROGER GREEN CONSTRUCTION, Denzilloavenue, Hillingdon, or 'phone Uxbridge 5302.

GENERAL FOREMAN wanted for Air Ministry contract, Harrow area. Lump sum bonus available.—Ring Uxbridge 8577.

G. E. WALLIS & SONS, Ltd. invite applications for the position of GENERAL FOREMAN on an interesting and important contract in the London area. Applicants must be fully experienced in carrying out work along modern pre-planned lines. —Applications, giving age, full details of training and past experience should be addressed to the Contracts Manager, G. E. WALLIS & SONS, Ltd., 231 Strand, London, W.C.2.

GENERAL FOREMAN Required, Manchester area initially, but must be willing to travel. Must be fully experienced. Permanent and Pensionable post. —Write, full details of experience, age and salary required. Box 3319, "The Builder."

WORKING FOREMEN (C. & J.) for alteration and extensions contracts in North London and Hertfordshire.—CRAMB & DEAN, Ltd., 104 Belsize-lane, N.W.3. HAM 7421.

SENIOR COST CLERK Required for Building and Civil Engineering Contractors in London. Duties will include responsibility for contract ledgers, preparation of Contract Cost Statements, etc. Salary about £800 per annum.—Box 3316, "The Builder."

CARPENTERS & JOINERS

SETTERS-OUT Required for new developments in Shopfitting and Architectural Metalwork. Permanent, pensionable appointments. Or will train suitable young tradesmen.—Write, full details, Secretary, AJAX ALUMINIUM Ltd., Kangley Bridge-road, S.E.26.

FOREMAN CARPENTER, aged 30-35, Required as ASSISTANT to General Foreman for work on high-class housing estates. Salary approximately £15 per week—Written applications to GOUGH COOPER & COMPANY Ltd., Wilmington House, Wilmington, Dartford, Kent.

FOREMAN/CARPENTER Required by expanding and progressive firm of London Contractors. Knowledge of R.C. work essential. Bonus and Pension Scheme and excellent prospects of promotion for successful applicant.—Apply, in writing, to A. T. CHOWN & CO., Ltd., 21/23 Chilworth-street, W.2, or 'phone PAD 1123.

BRICKLAYERS

WORKING BRICKLAYER FOREMEN Required for sites at Hampstead and Sutton. Prospects of permanent positions for suitable applicants.—Apply, in writing, giving details and salary required. COURTNEY & FAIRBAIRN Ltd., 377 Albany-road, Camberwell, S.E.5.

BRICKLAYER FOREMAN, 1st-class tradesman, able to control men, do own setting out, take own levels if necessary. High rate of pay to right man.—Write, full details, BEE, 47 Cedric-road, Weston, Bath.

CLERKS

CLERK wanted by Kensington Builder.—Apply stating age and salary required.—Box 3265, "The Builder."

ACCOUNTS CLERKS for old-established Builders, north-west Surrey. Experienced men only, preferably 28/38 age group. Thorough knowledge of Builders' accounting, preferably mechanised, including Costing, Bought and Sales Ledgers or preparation of Jobbing Accounts. Excellent opportunities for men of proved ability, prepared to give loyal service in expanding organisation. Pension scheme. —Apply, in confidence, with fullest possible details, including salary envisaged, to Secretary, Box 3275, "The Builder."

INVOICE CLERK Required (male or female), experienced in checking Builders' Invoices.—Please state experience, age and salary required to THE DEMOLITION & CONSTRUCTION COMPANY, Building Department, Mitcham-road, Croydon, Surrey.

BUILDERS' CLERK Required, experienced in general duties of builder's office.—Apply stating age, experience and salary required. Permanent position, Edgware, Middx.—Box 3270, "The Builder."

WAGES & COST CLERKS

Opportunities to join an expanding and progressive company are available to ambitious men seeking a progressive and secure future. If you have experience of Wages Sheets, P.A.Y.E. and Labour Costing, we can offer a good salary, profit sharing bonus, subsidised travel, and superannuable positions.

Apply to Personnel Manager,

WATES LTD.,
1258/1260, London Road, Norbury, S.W.16.

ACCOUNTANT Required for London Company operating specialist sub-contracting in Building trades. Position is one initially to take control of Accounts Department and Costings with long-term prospects for advancement and scope to re-organise administration of Company with subsidiaries. Preference given to a qualified applicant aged about 30 with knowledge of the Building trade.—Written applications to Box 3269, "The Builder."

BUILDER'S CLERK Required in Quantity Surveyor's office, Westminster, S.W.1. 5-day week.—Reply, stating age, experience and salary required, to Box 3146, "The Builder."

TYPIST AND GENERAL OFFICE DUTIES for Quantity Surveyors, W.C.1.—Experience, age and salary required to Box 914, "The Builder."

STOCK CONTROL CLERK (Male) for Builders' Merchants, light side only, trade knowledge desirable. Must be able to work on own initiative; good prospects.—'Phone or write A. GOSLETT & CO., Ltd., 127-131 Charing Cross-road, W.C.2.

COST CLERK Required for interesting work in new industry. Opportunity to advance to position of responsibility.—Write full details including age, experience and salary required to the Managing Director, UNIVERSAL SHOPFITTING CO. (LONDON), Ltd., Kangley Bridge-road, S.E.26.

ACCOUNTS CLERK Required. Must have sound knowledge of double entry book-keeping.—Write stating age, experience and salary required to Box 3288, "The Builder."

BUILDERS' CLERK, experienced in ordering, Required for newly created small office vacancy.—Write, stating experience and salary, to ROGER GREEN CONSTRUCTION, Denziloe-avenue, Hillingdon, or 'phone Uxbridge 5302.

WAGES CLERK Required. Excellent opportunity for right person to join fast expanding and progressive Building Contractors. Good salary and conditions offered. Wages experience essential and knowledge of Building Industry an advantage.—Apply to Secretary A. T. CHOWN & CO. Ltd. 21 Chilworth-street W.2. Telephone: PAD 1123.

CLERK Required for Building Contractor's Site Office. Duties include clerical work timekeeping and checking. Permanent position with rapidly expanding and progressive company. Excellent salary and conditions.—Apply to Secretary A. T. CHOWN & CO. Ltd. 21 Chilworth-street W.2. Telephone PAD 1123.

JUNIOR CLERK Wanted for medium-sized Office. Good salary and prospects for able and energetic man.—Box 3313, "The Builder."

COST ACCOUNTANT Required, preferably qualified and with experience in the building and Civil Engineering industry, to take charge and develop the existing Cost Department of Nationally-known Contractors in Edinburgh. This is a permanent position with Pension and Bonus schemes in force. Please apply, giving age, previous employers and experience, which will be treated confidentially.—Box 3318, "The Builder."

BOUGHT LEDGER CLERK (Male) Required. Senior position in Building Contractors' West End Office. Hours 9 to 5.30, alternate Saturdays 9-12. Salary about £14 per week.—Write, stating age and experience, to Box 3324, "The Builder."

STOREKEEPER, experienced, Required by Thermal Insulation Specialists. Salary £14 per week.—Apply, giving age and experience, to Box 3307, "The Builder."

EXPERIENCED ACCOUNTS CLERK Required for Building and Civil Engineering Contractors in London. Duties will include checking suppliers invoices, maintenance of contract ledgers, etc. Salary about £650 per annum.—Box 3348, "The Builder."

ASSISTANT Required in Specialist Sub-Contractors' office in Victoria. Experienced in book-keeping and wages, and able to assist with costing, interim and final accounts, etc.—Write details of experience, age and salary required to Box 3382, "The Builder."

WAGES CLERK (Female) Required for Building Contractor in Ilford.—Write, details of age, experience and salary required, to HAMMONT & MILES Ltd., Scrafton-road Works, Ilford.

MISCELLANEOUS

PUBLIC RELATIONS OFFICER Required with knowledge of constructional and agricultural equipment.—WHITLOCKS, Great Yeldham, Essex.

OVERSEAS APPOINTMENTS

Prepaid rate, 24 words, 8/6; additional 6 words, 2/-. Box number, including Forwarding Replies, 2/-.

AUSTRALIA. ARCHITECT, Senior, with practical experience, Required in Melbourne, to take charge of Specification Department for major Architectural firm on wide variety of building projects. Duties include research and site investigation of latest building techniques. Fares paid and three-year service contract. Salary over £A2,000 per annum by arrangement. Ample accommodation available for rent or purchase.—Reply, in writing, stating qualifications, experience, age, size of family and when available.—Box 3354, "The Builder."

SYDNEY, AUSTRALIA. Experienced ARCHITECTURAL ASSISTANT Required. Commencing salary £A2,000.—Box 3355, "The Builder."

QUALIFIED QUANTITY SURVEYOR for office of professional firm in West Indies on work covering measuring, pricing and agreeing final accounts. 3-year tour.—Details of qualifications and experience to Box 2978, "The Builder."

ARABIAN GULF. QUANTITY SURVEYOR Required by professional firm. Eighteen month tour with preliminary period in London office. Substantial salary with accommodation and car allowance provided. No local income tax. Bachelor preferred age over 25.—Apply stating qualifications and experience to Box 987, "The Builder."

A SENIOR fully qualified QUANTITY SURVEYOR with good personality and drive for responsible position to take charge of branch office of busy professional firm in West Africa. Substantial salary for the right man with free accommodation, passages and transport for surveyor and family; 18 month tours—Brief details of qualifications to Box 930, "The Builder."

QUANTITY SURVEYOR (Assistant) Required by British Building and Civil Engineering Contractor for 2-year tour in Kenya. Prospects of permanent employment in East Africa if desired.—Write Box B456, L.P.E., Romano House, 399/401 Strand, London, W.C.2.

AUSTRALIA, Sydney. SENIOR TAKER-OFF Required. Commencing salary £A2,000 p.a. plus overtime. 1, 2 or 3-year contract. Travelling expenses paid.—Box 3190, "The Builder."

TAKERS-OFF of Intermediate to Final Standard Required by Westminster Quantity Surveyors to work in the London office. Excellent opportunities for proceeding to Branch Offices overseas as resident surveyors as and when vacancies arise.—Apply stating age and qualifications, Box 941, "The Builder."

AUSTRALIA. Vacancies for TAKERS-OFF. See advert under heading "Takers Off."

GENERAL FOREMEN Required for Building and Civil Engineering Company in West Africa. Experience in reinforced concrete construction essential. Good salary, free furnished accommodation, car allowance, etc.—Box 3189, "The Builder."

NIGERIA

British Building & Civil Engineering Company require a

GENERAL MANAGER

for their expanding Nigerian Subsidiary Company. Successful applicant will be appointed a Director of the Subsidiary and will be expected to assume full responsibility for the day to day running of the Company within the Policy laid down by the Board. Salary by negotiation, according to experience, but it is contemplated this would be of the order of £5,000 per annum plus usual benefits including Married Accommodation, etc.

Reply in confidence to

Director Box T.B. 466
L.P.E. Romano House,
399/401 Strand, W.C.2.

AUSTRALIA. SUPERINTENDENT OF WORKS Required for completion of R.C. Cathedral. Must be fully experienced, especially in stonework and contract management. 3-year contract. Commencing salary £A1,875.—Box 3353, "The Builder."

TAYLOR WOODROW GROUP

Applications are invited from experienced men capable of filling OVERSEAS APPOINTMENT: in the the following categories:—

AGENTS

Preferably between 35/45 years of age who would be required to take full control of large scale building and civil engineering schemes.

QUANTITY SURVEYORS

Preferably between 30/40 years of age and with at least four years' site experience on building and civil engineering contracts. Must be conversant with interim valuations and final accounts.

Applications to Personnel Manager,

Taylor Woodrow (Overseas) Limited,
Western House, Western Avenue, Ealing, London, W.5

SERVICES OFFERED

Minimum 8s. 6d. (24 words)
Each additional 6 words 2s. Box number, Including Forwarding Replies, 2s.

BUILDERS' CONTRACTORS. Make use of my Site Survey Service. Site Surveys, Grids of Levels, etc., promptly undertaken. Midlands.—H. BENGOUGH, Brailes, Banbury. Tel.: Brailes 260.

ARCHITECTURAL AND STRUCTURAL services offered in the preparation of house and factory plans, steel and R.C. framed buildings, including design, perspectives and surveys, at reasonable fees. —Box 3277, "The Builder."

CHARTERED SURVEYOR assists the profession within a 30 miles radius of Marble Arch. Structural surveys, plans, specifications, conversions, dilapidations.—NORMAN KINGSLEY. Telephone: Hunter 1325.

ESTIMATOR offers PART-TIME SERVICES to the trade for preparation of estimates from Bills of Quantities or Drawings.—Box 3142, "The Builder."

BUILDER'S ESTIMATES accurately prepared to your requirements from Drawings or Quantities.—For satisfactory results with reduced overheads, consult THE BUILDERS' ESTIMATOR, 73 New Bedford-road, Luton, Beds. 'Phone: Luton 8077.

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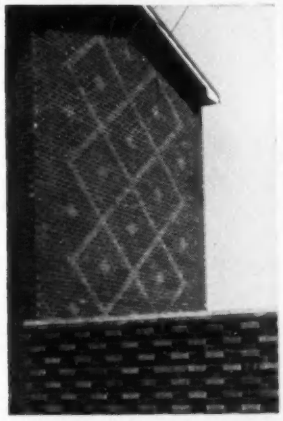

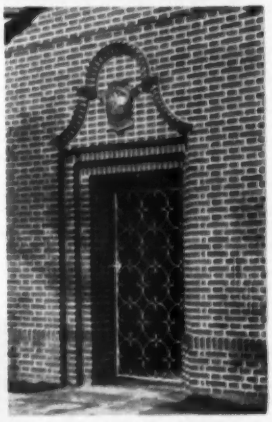

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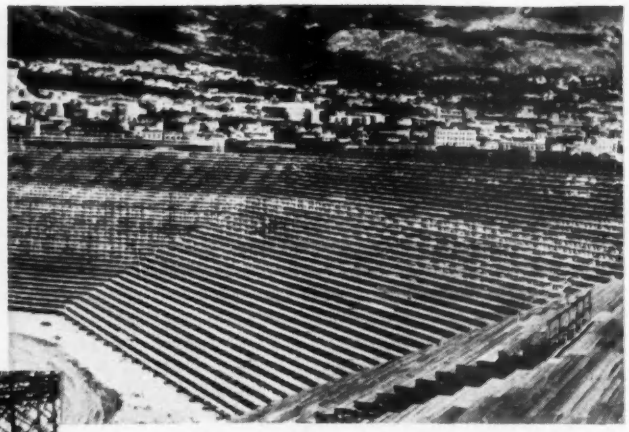

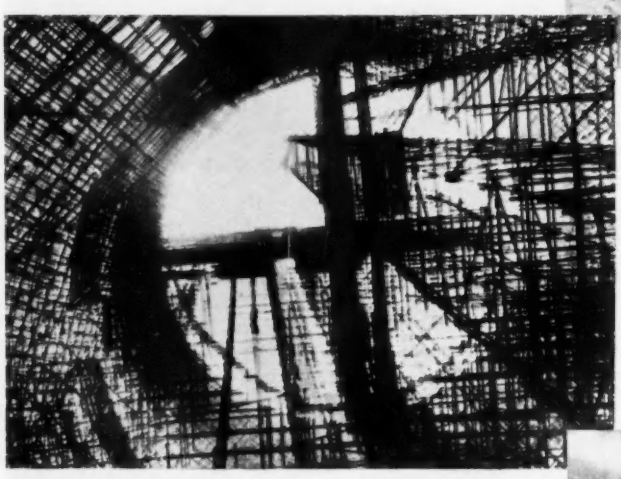

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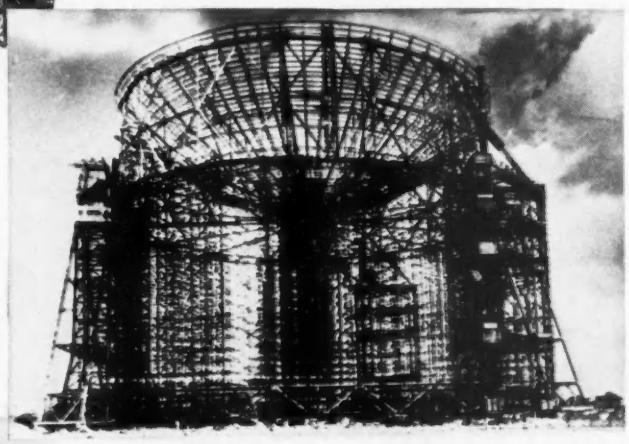

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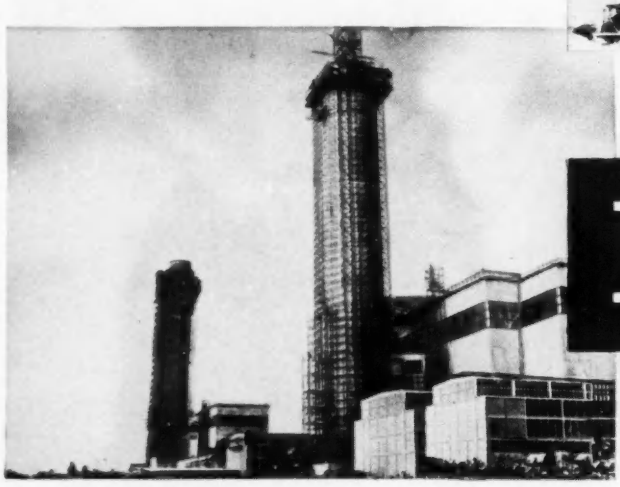

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